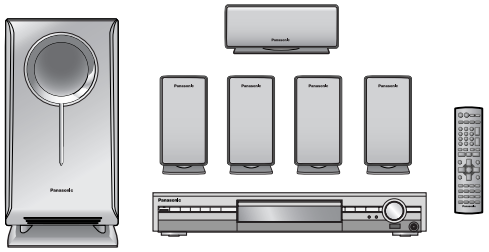
Panasonic®



The illustration shows SC-HT520 for the United Kingdom and Continental Europe.

Operating Instructions

DVD Home Theater Sound System

Model No. **SC-HT878/SC-HT870**
SC-HT520

Before connecting, operating or adjusting this product, please read these instructions completely.
Please keep this manual for future reference.

DVD AUDIO / VIDEO

COMPACT disc DIGITAL VIDEO

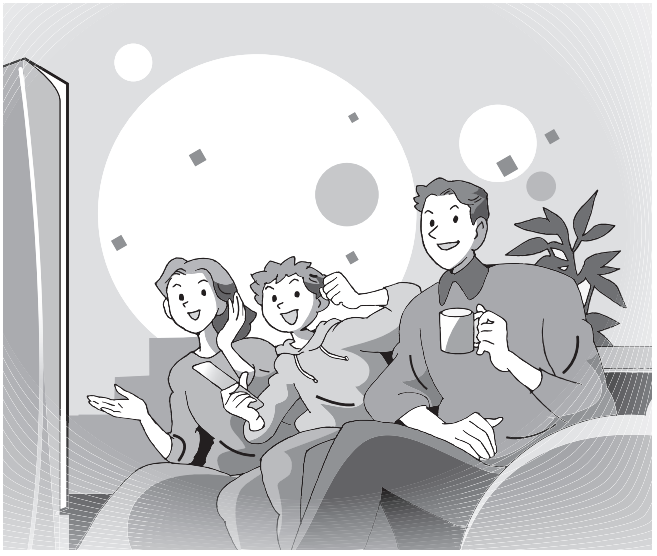
RAM COMPATIBLE PLAYER

Region number

The player plays DVD-Video marked with labels containing the region number or "**ALL**".

Region	Number
The United Kingdom, Continental Europe, the Middle East, South Africa, Saudi Arabia and Kuwait	2
Southeast Asia	3
Australia and N.Z.	4
Russia	5

Example: The United Kingdom and Continental Europe



Note
"EB" on the packaging indicates the United Kingdom.

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EB E EE GC GS GCS GN

RQT7429-2B

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Dear customer

Thank you for purchasing this product. For optimum performance and safety, please read these instructions carefully.

HT878: indicates features applicable to SC-HT878 only.
HT870: SC-HT870 only.
HT520: SC-HT520 only.

- **These operating instructions are applicable to models SC-HT878, SC-HT870 and SC-HT520 for a variety of regions.**
- **Unless otherwise indicated, illustrations in these operating instructions are of SC-HT520 for the United Kingdom and Continental Europe.**
- **Operations in these instructions are described mainly with the remote control, but you can do the operations on the main unit if the controls are the same.**

System	SC-HT878	SC-HT870	SC-HT520
Main unit	SA-HT878	SA-HT870	SA-HT520
Front speakers	SB-FS878	SB-PF921	SB-FS520
Center speaker	SB-PC878	SB-PC920	SB-PC520
Surround speakers	SB-FS878	SB-PS921	SB-FS520
Active subwoofer	SB-WA878	SB-WA870	SB-WA520

CAUTION!

**THIS PRODUCT UTILIZES A LASER.
USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.
DO NOT OPEN COVERS AND DO NOT REPAIR YOURSELF.
REFER SERVICING TO QUALIFIED PERSONNEL.**

WARNING:

TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK OR PRODUCT DAMAGE, DO NOT EXPOSE THIS APPARATUS TO RAIN, MOISTURE, DRIPPING OR SPLASHING AND THAT NO OBJECTS FILLED WITH LIQUIDS, SUCH AS VASES, SHALL BE PLACED ON THE APPARATUS.

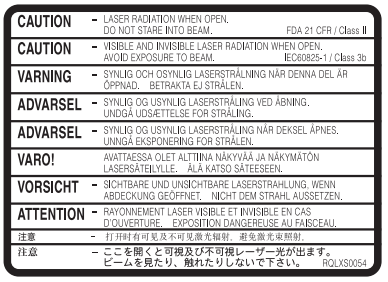
CAUTION!

- **DO NOT INSTALL OR PLACE THIS UNIT IN A BOOKCASE, BUILT-IN CABINET OR IN ANOTHER CONFINED SPACE. ENSURE THE UNIT IS WELL VENTILATED. TO PREVENT RISK OF ELECTRIC SHOCK OR FIRE HAZARD DUE TO OVERHEATING, ENSURE THAT CURTAINS AND ANY OTHER MATERIALS DO NOT OBSTRUCT THE VENTILATION VENTS.**
- **DO NOT OBSTRUCT THE UNIT'S VENTILATION OPENINGS WITH NEWSPAPERS, TABLECLOTHS, CURTAINS, AND SIMILAR ITEMS.**
- **DO NOT PLACE SOURCES OF NAKED FLAMES, SUCH AS LIGHTED CANDLES, ON THE UNIT.**
- **DISPOSE OF BATTERIES IN AN ENVIRONMENTALLY FRIENDLY MANNER.**

For the Middle East, South Africa, Southeast Asia, Saudi Arabia and Kuwait
THIS UNIT IS INTENDED FOR USE IN TROPICAL CLIMATES.
For the United Kingdom, Continental Europe, Australia, N.Z. and Russia
THIS UNIT IS INTENDED FOR USE IN MODERATE CLIMATES.

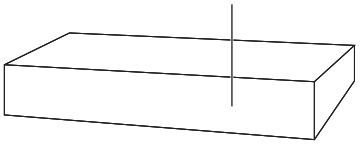
The socket outlet shall be installed near the equipment and easily accessible or the mains plug or an appliance coupler shall remain readily operable.

This product may receive radio interference caused by mobile telephones during use. If such interference is apparent, please increase separation between the product and the mobile telephone.


CAUTION – LASER RADIATION WHEN OPEN. DO NOT STARE INTO BEAM. FDA 21 CFR / Class II
CAUTION – VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN. AVOID EXPOSURE TO BEAM. IEC60825-1 / Class 3b
VARNING – SYNLIG OCH OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD. BETRAKTA EJ STRÅLEN.
ADVARSEL – SYNLIG OG USYNLIG LASERSTRÅLING VED ÅBNING. UNDGÅ UDSÆTTELSE FOR STRÅLING.
ADVARSEL – SYNLIG OG USYNLIG LASERSTRÅLING NÅR DEKSEL ÅPNES. UNNGÅ EKSPONERING FOR STRÅLEN.
VARO! AVATTAESSA OLET ALTTIINA NÄKYVÄÄ JA NÄKYMÄTÖN LASERSÄTEILYLLE. ÄLÄ KATSO SÄTEESEEN.
VORSICHT – SICHTBARE UND UNSICHTBARE LASERSTRAHLUNG, WENN ABDECKUNG GEÖFFNET. NICHT DEM STRAHL AUSSETZEN.
ATTENTION – RAYONNEMENT LASER VISIBLE ET INVISIBLE EN CAS D'OUVERTURE. EXPOSITION DANGEREUSE AU FAISCEAU.
注意 – 打开时有可见及不可见激光辐射。避免激光束照射。
注意 – ここを開くと可視及び不可視レーザー光が出ます。ビームを見たり、触れたりしないで下さい。 RQLXS0054

(Inside of product)
(Produktets innside)
(Tuotteen sisällä)

LUOKAN 1 LASERLAITE
KLASS 1 LASER APPARAT



(Back of product)

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Caution for AC Mains Lead

(For United Kingdom, Saudi Arabia and Kuwait)

("EB" and "GS" area code models only)

For your safety, please read the following text carefully.
This appliance is supplied with a moulded three pin mains plug for your safety and convenience.
A 5-ampere fuse is fitted in this plug.
Should the fuse need to be replaced please ensure that the replacement fuse has a rating of 5-ampere and that it is approved by ASTA or BSI to BS1362.
Check for the ASTA mark or the BSI mark on the body of the fuse.

If the plug contains a removable fuse cover you must ensure that it is refitted when the fuse is replaced.
If you lose the fuse cover the plug must not be used until a replacement cover is obtained.
A replacement fuse cover can be purchased from your local dealer.

CAUTION!
IF THE FITTED MOULDED PLUG IS UNSUITABLE FOR THE SOCKET OUTLET IN YOUR HOME THEN THE FUSE SHOULD BE REMOVED AND THE PLUG CUT OFF AND DISPOSED OF SAFELY.
THERE IS A DANGER OF SEVERE ELECTRICAL SHOCK IF THE CUT OFF PLUG IS INSERTED INTO ANY 13-AMPERE SOCKET.

If a new plug is to be fitted please observe the wiring code as stated below.
If in any doubt please consult a qualified electrician.

IMPORTANT
The wires in this mains lead are coloured in accordance with the following code:
Blue: Neutral, Brown: Live.
As these colours may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:
The wire which is coloured Blue must be connected to the terminal which is marked with the letter N or coloured Black or Blue.
The wire which is coloured Brown must be connected to the terminal which is marked with the letter L or coloured Brown or Red.

WARNING: DO NOT CONNECT EITHER WIRE TO THE EARTH TERMINAL WHICH IS MARKED WITH THE LETTER E, BY THE EARTH SYMBOL ⏚ OR COLOURED GREEN OR GREEN/YELLOW.

THIS PLUG IS NOT WATERPROOF—KEEP DRY.

Before use
Remove the connector cover.

How to replace the fuse
The location of the fuse differ according to the type of AC mains plug (figures A and B). Confirm the AC mains plug fitted and follow the instructions below.
Illustrations may differ from actual AC mains plug.

1. Open the fuse cover with a screwdriver.

Figure A

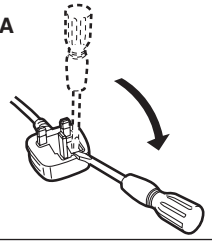
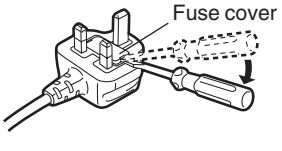


Figure B



2. Replace the fuse and close or attach the fuse cover.

Figure A

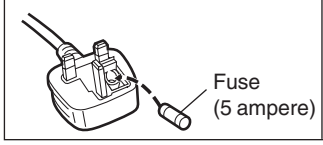
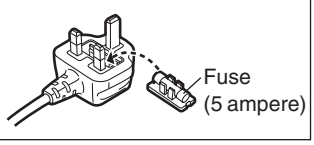


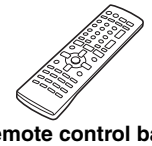
Figure B



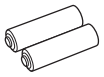
Accessories

Please check and identify the supplied accessories. Use numbers indicated in parentheses when asking for replacement parts.

☐ 1 **Remote control**
HT878 HT870
(EUR7722X30)
HT520
(EUR7722X10)

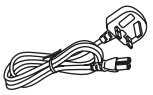


☐ 2 **Remote control batteries**



☐ 1 **Video cable**
(RJL1P016B15A)

☐ 1 **AC mains lead**
The United Kingdom, Saudi Arabia and Kuwait
(RJA0053-3X)



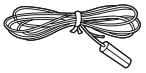
Australia and N.Z.
(K2CJ2DA00010)

Continental Europe, Russia, Southeast Asia, the Middle East, South Africa, Saudi Arabia and Kuwait
(K2CQ2CA00002)

The United Kingdom
☐ 1 **Antenna plug adaptor**
(K1YZ02000013)

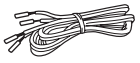
☐ 1 **AM loop antenna**
(N1DAAAA00001)

☐ 1 **FM indoor antenna**
(RSA0007-J)

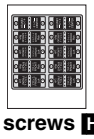


☐ 1 **System cable**
(K1HA25HA0001)

☐ **Speaker cables**
HT878 HT520
3×4-m cables
(REE1247A)
2×10-m cables
(REE1247C)
HT870
1×4-m cable (REE1203A)



☐ 1 **Sheet of speaker-cable stickers**



☐ 8 **Silver screws** HT878
(XSN5+16FN)

☐ 4 **Black screws** HT878
(XTB3+10JFZ)

☐ 4 **Clips** HT878
(QWBG002AA)

☐ 4 **Large washer screws** HT870
(RHD50015)

☐ 8 **Small screws** HT870
(XSN5+10FN)

Note
The included AC mains lead is for use with this unit only.
Do not use it with other equipment.

The United Kingdom and Republic of Ireland

shop@ **Panasonic**

www.panasonic.co.uk (for UK customers only)

- Order accessory and consumable items for your product with ease and confidence by telephoning our Customer Care Centre Mon–Friday 9:00am–5:30pm. (Excluding public holidays.)
- Or go on line through our Internet Accessory ordering application.
- Most major credit and debit cards accepted.
- All enquiries transactions and distribution facilities are provided directly by Panasonic UK Ltd.
- It couldn't be simpler!

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For Republic of Ireland customers: 01 289 8333

Technical Support
For UK customers: 0870 1 505610

This Technical Support Hot Line number is for Panasonic PC software related products only.

For Republic of Ireland, please use the Customer Care Centre number listed above for all enquiries.

For all other product related enquiries, please use the Customer Care Centre numbers listed above.

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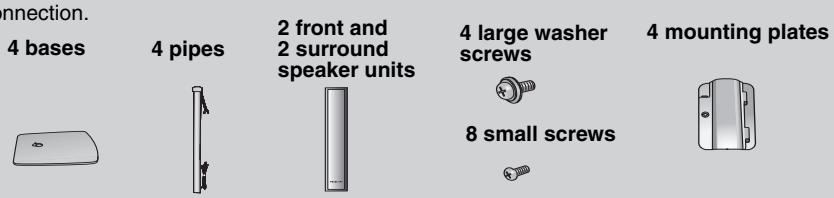
Simple setup

STEP 1 HT870

Make sure you have all the indicated components before starting the assembly, setup, and connection.



Front and surround speaker assembly

Note

The front and surround speaker pairs as well as the pipe pairs are different.

– Check the label on the rear of the speaker before attaching the pipe (➜ page 8).

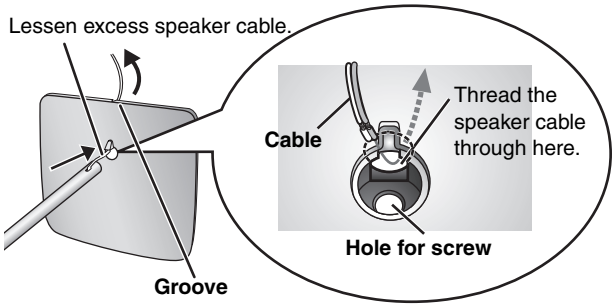
– The pipe with the shorter cable is for the front speaker unit.

Preparation

- To prevent damage or scratches, lay a soft cloth and perform assembly on it.
- For assembly, use a Phillips-head screwdriver.

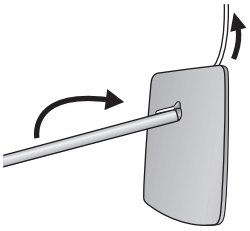
1 Attach the pipe to the base.

❶ Thread the speaker cable through the base.



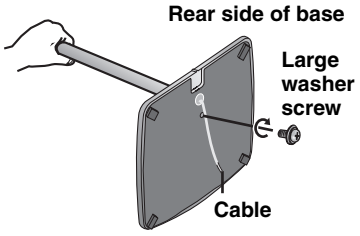
❷ Insert the pipe.

Insert the pipe while slightly pulling on the speaker cable.



❸ Secure the pipe to the base.

Ensure the screw is securely fastened.

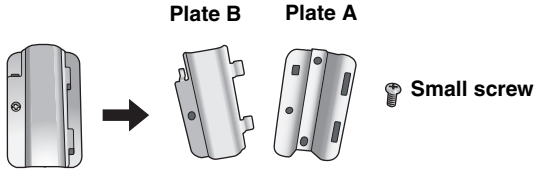


The supplied stands are specially designed for attachment to Panasonic SB-PF921 front speakers and SB-PS921 surround speakers. Only use as indicated in this setup.

2 Attach the stand to the front and surround speaker.

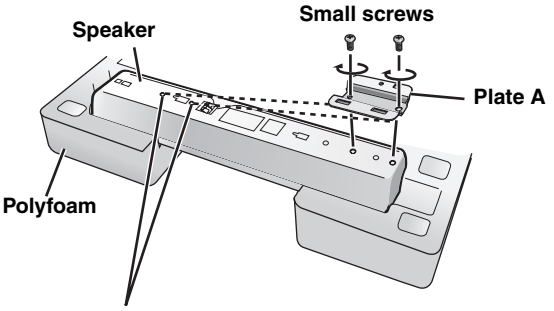
- There is no difference between the right and left speakers and stands.
- Using the polyfoam included with this unit may be convenient.

❶ Remove the screw and separate the mounting plate into two parts.



❷ Attach the plate A to the speaker.

Ensure the plate A is fastened on straight by lightly tightening the top and bottom screws alternately until fully tightened.



You can also attach to the upper rear of the speaker.

The height of the speaker is indicated in the diagram (➜ page 5) when attaching the plate A to the upper rear or lower rear of the speaker.

❸ Place the pipe on the plate A and attach the plate B.

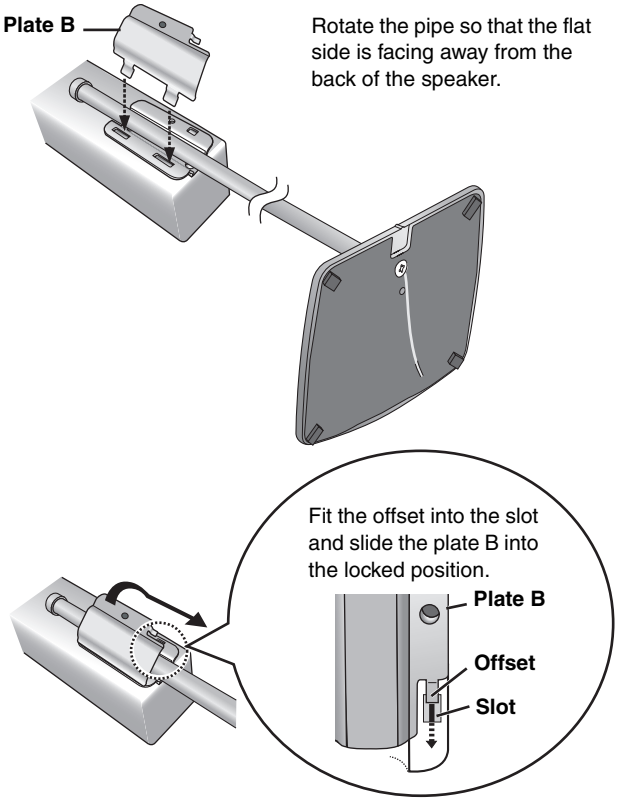
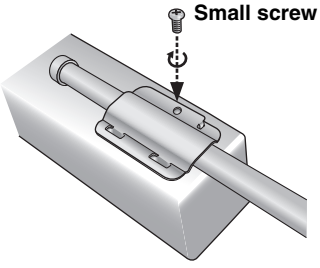


Plate B
Rotate the pipe so that the flat side is facing away from the back of the speaker.
Fit the offset into the slot and slide the plate B into the locked position.
Plate B
Offset
Slot

❹ Secure the plate with the same screw removed in procedure 1.



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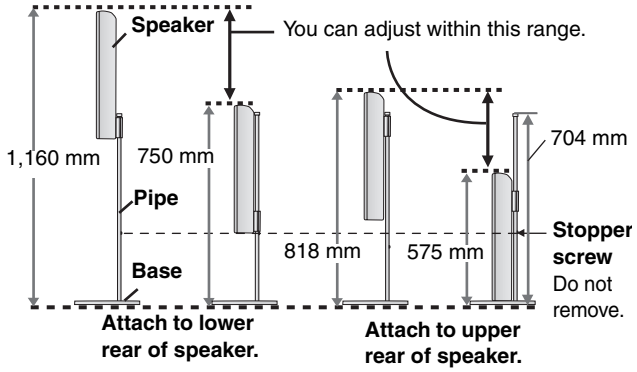
■ Front and surround speaker height

(Assembled diagram)



3 Adjust the speaker height.

- Check the screws you tightened on page 4.

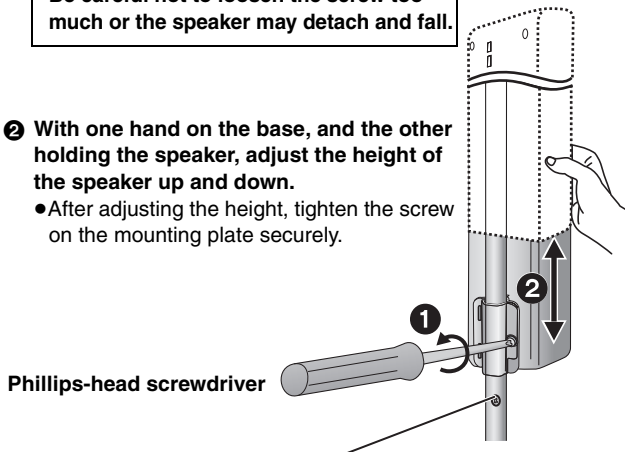
e.g. **Attaching the stand to the lower rear of the speaker**

❶ **Loosen the attached speaker mounting plate screw until the attached speaker is slightly loose and adjustable.**

Be careful not to loosen the screw too much or the speaker may detach and fall.

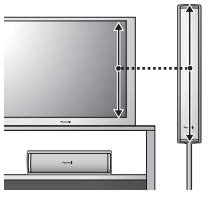
❷ **With one hand on the base, and the other holding the speaker, adjust the height of the speaker up and down.**

- After adjusting the height, tighten the screw on the mounting plate securely.



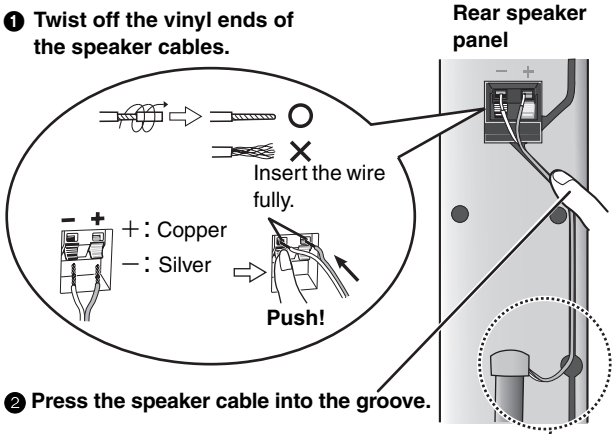
For your reference

You can enjoy good acoustics by adjusting the height of the speaker with the height of the television so the center positions of both are approximately the same.



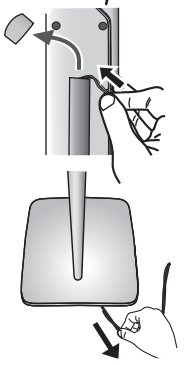
4 Connect the speaker cables.

❶ **Twist off the vinyl ends of the speaker cables.**



❷ **Press the speaker cable into the groove.**

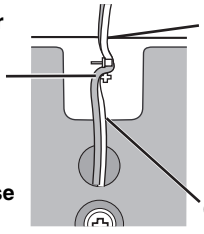
If there is any excess speaker cable, detach the rubber cap on the top of the pipe and thread the speaker cable into the opening while pulling the speaker cable from the bottom of the base.



5 Fasten the speaker cable to the base.

❶ **Press the speaker cable and thread between the hooks.**

❷ **Fit the speaker cable into the base cover groove as far as possible.**



■ Preventing the speakers from falling over (Front and surround speakers)

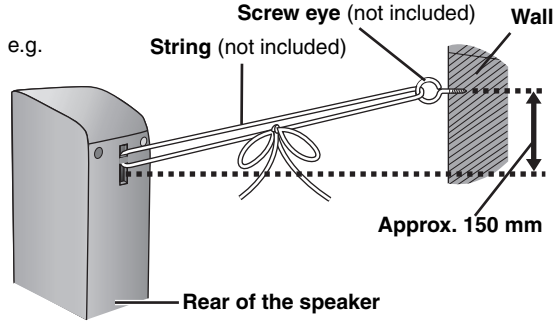
Preparation

Attach screw eyes (not included) to secure the speakers to the wall (➜diagram right).

- You will need to obtain the appropriate screw eyes to match the walls and pillars to which the screw eyes are going to be fastened.
- Consult with a qualified housing contractor concerning the appropriate procedure when attaching to a concrete wall or a surface that may not have strong enough support. Improper attachment may result in damage to the wall or speakers.

❶ **Thread the string (not included) through the slot on the rear of the speaker to prevent it from falling over.**

❷ **Loop the string through the screw eye and tie tightly.**



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STEP 1 HT878

Front and surround speaker assembly

Make sure you have all the indicated components before starting the assembly, setup, and connection.

4 speaker units

4 stands

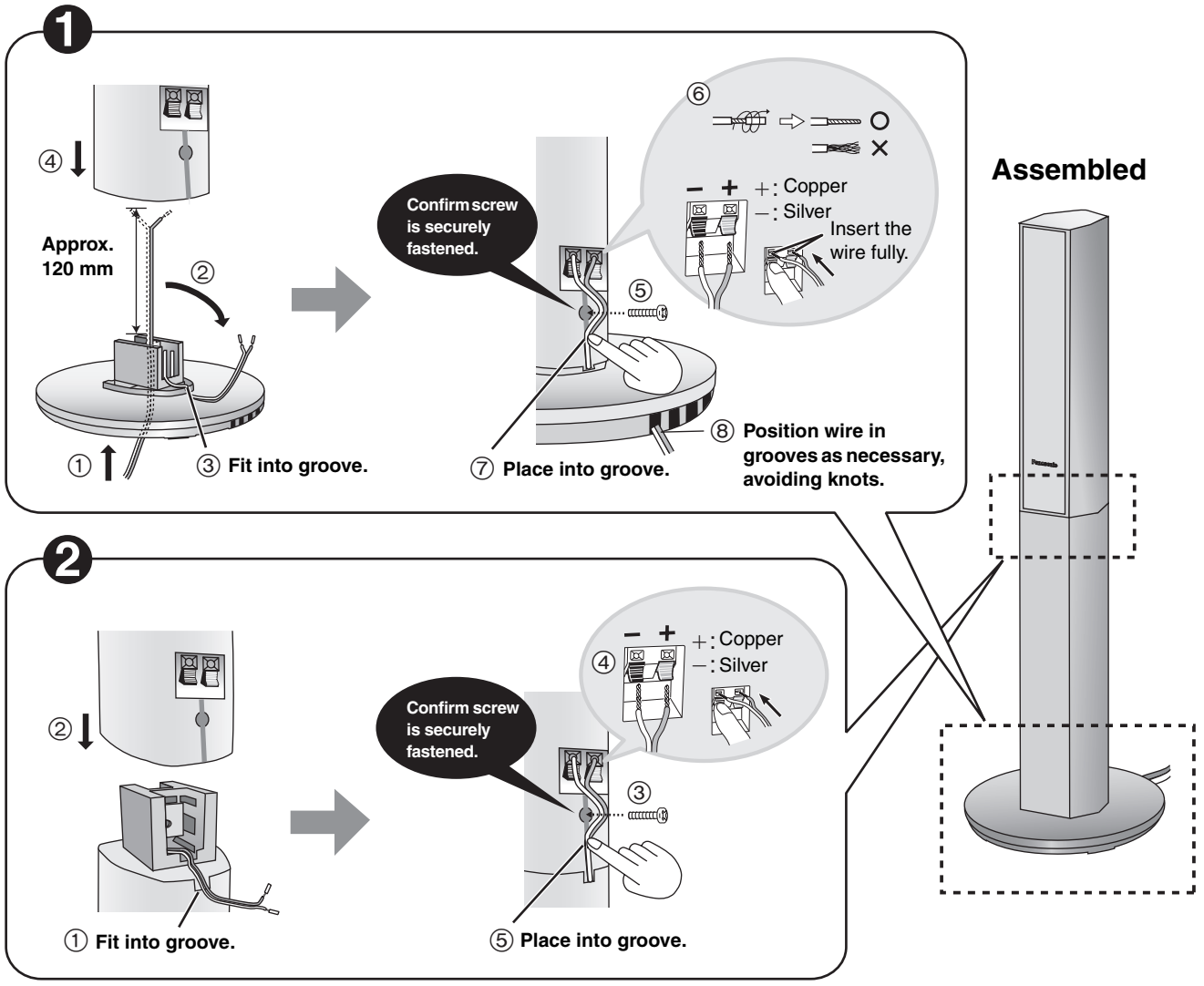
4 bases

8 silver screws

4 speaker cables

- 2×4-m cables: For front speakers

- 2×10-m cables: For surround speakers

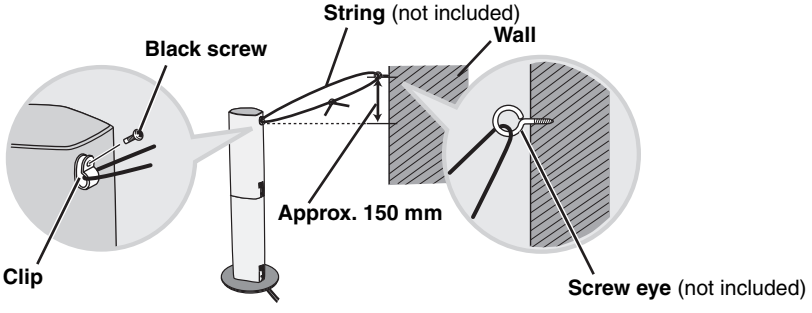


- You can attach the speakers directly to their bases (if you want to put them on shelves, for example).

■ Preventing the speakers from falling over (Front and surround speakers)

4 black screws

4 clips



Note

Consult with a qualified housing contractor concerning the appropriate procedure when attaching to a concrete wall or a surface that may not have strong enough support. Improper attachment may result in damage to the wall or speakers.

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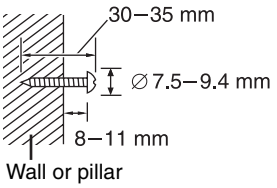
Other speaker setup options

HT878 (Center speaker only) **HT870** **HT520**

■ Attaching to a wall

❶ Drive a screw (not included) into a wall.
❷ Fit the speaker securely onto the screw(s) with the hole(s).

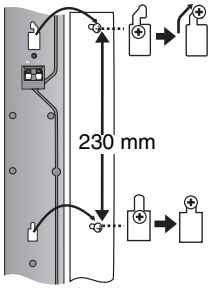


- The wall or pillar on which the speakers are to be attached should be capable of supporting 10 kg per screw. Consult a qualified building contractor when attaching the speakers to a wall. Improper attachment may result in damage to the wall and speakers.

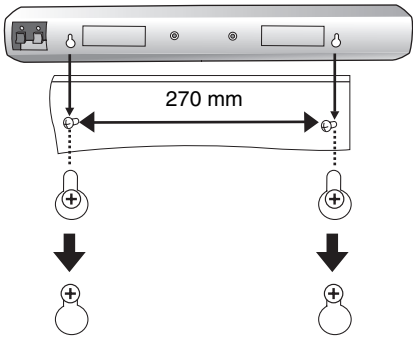
HT870

- When mounting the front and surround speaker to a wall, we recommend using a string (not included) to prevent it from falling (➜ page 5).
- Use of optional speaker cables are recommended for wall-mounted front and surround speakers. (You can also remove the speaker cables from the pipes supplied with this system.)

Front and surround speakers HT870

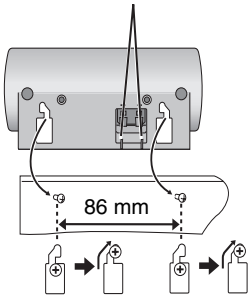


Center speaker HT878

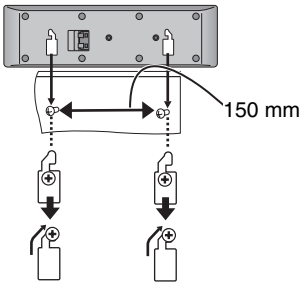


Center speaker HT520

So that the speaker fits up against the wall squarely, be sure to press the speaker cable down into the groove.



Center speaker HT870



In this position, the speaker will likely fall if moved to the left or right.

Move the speaker so that the screw is in this position.

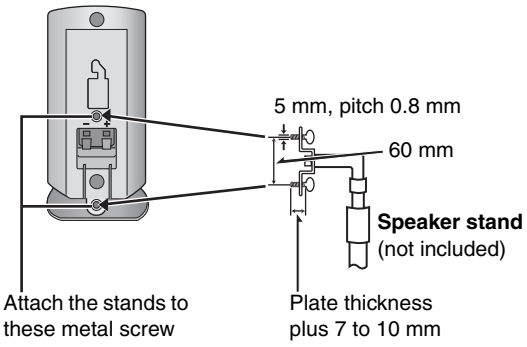
■ Fitting speaker stands (not included)

HT878 HT870 (Center speaker only) HT520

Ensure the stands meet these conditions before purchasing them.
Observe the diameter and length of the screws and the distance between screws as shown in the diagram.

- The stands must be able to support over 10 kg.
- The stands must be stable even if the speakers are in a high position.

e.g. HT520 **Front speaker**


5 mm, pitch 0.8 mm
60 mm
Speaker stand
(not included)
Attach the stands to these metal screw holes.
Plate thickness plus 7 to 10 mm

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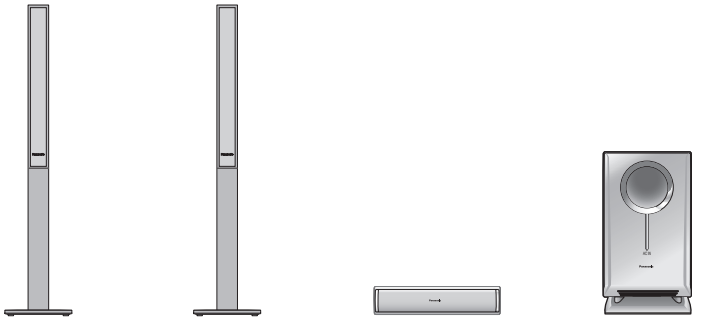
STEP 2 Locating

How you set up your speakers can affect the bass and the sound field. Note the following points.
- Place speakers on flat secure bases.
- Placing speakers too close to floors, walls, and corners can result in excessive bass. Cover walls and windows with thick curtains.
- Place the front, center, and surround speakers at approximately the same distance from the seating position. The angles in the diagrams are approximate.

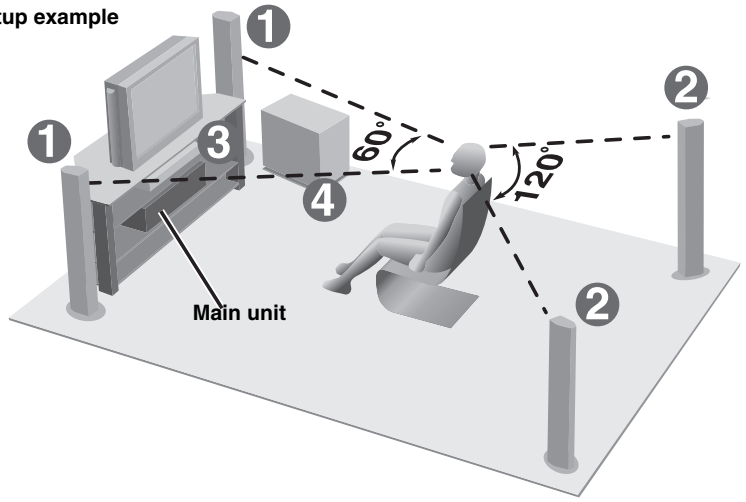
HT878



1 FRONT (L, R) 2 SURROUND (L, R) 3 CENTER 4 SUBWOOFER

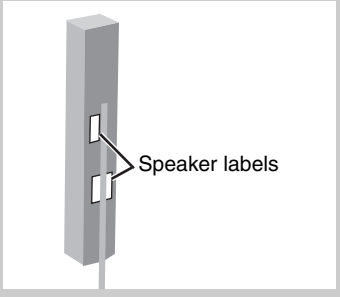
- The front left, right and surround speakers are all the same.

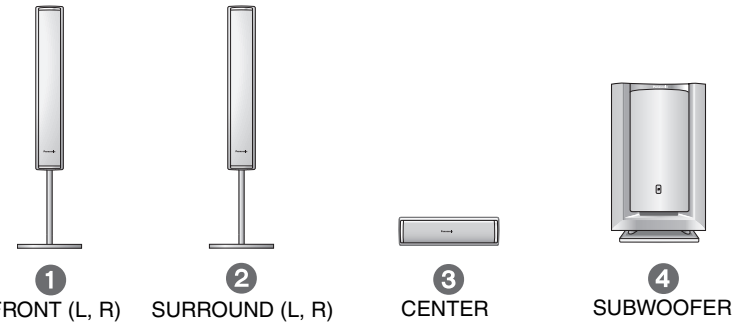
Setup example



HT870

Do not use a front speaker as a surround speaker or vice versa. Verify the type of speaker with the label on the rear of the speaker.

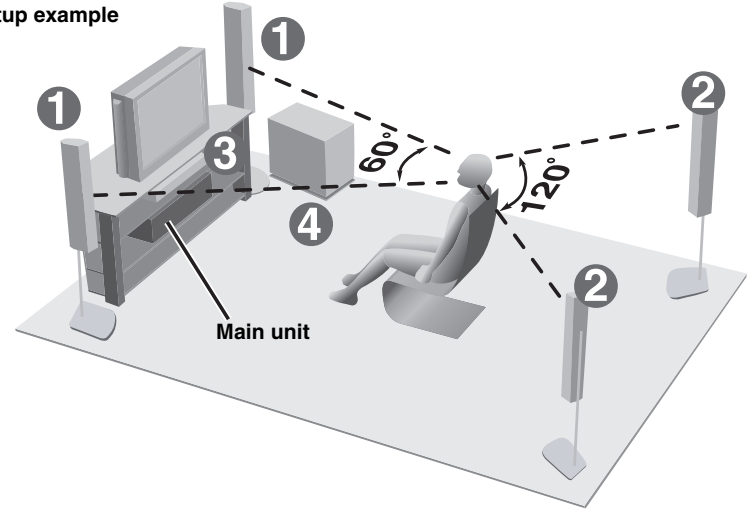




1 FRONT (L, R) 2 SURROUND (L, R) 3 CENTER 4 SUBWOOFER

- The left and right speaker pairs are the same with respect to the front and surround speakers.

Setup example



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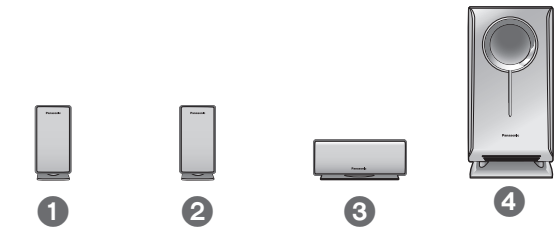
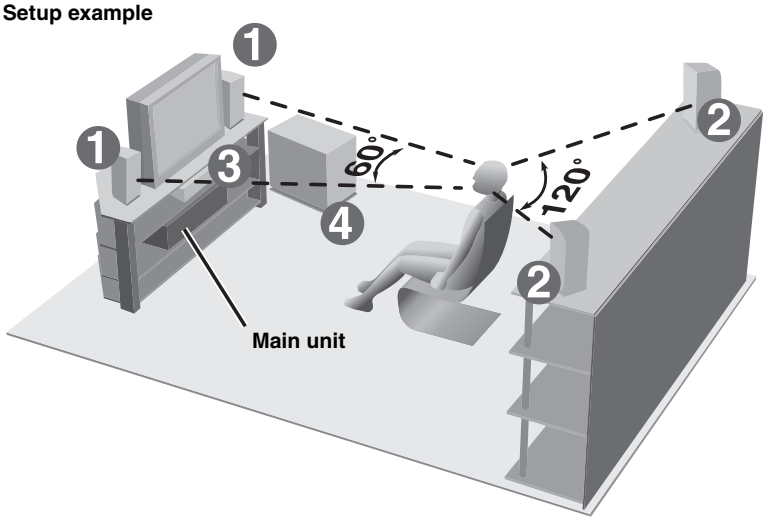
HT520



1 FRONT (L, R) 2 SURROUND (L, R) 3 CENTER 4 SUBWOOFER

- The front left, right and surround speakers are all the same.

Setup example



- **Use only supplied speakers**
  Using other speakers can damage the unit and sound quality will be negatively affected.
- Set the speakers up on an even surface to prevent them from falling. Take proper precautions to prevent the speakers from falling if you cannot set them up on an even surface.

Main unit

Note

Keep your speakers at least 10 mm away from the system for proper ventilation.

Center speaker

- Vibration caused by the center speaker can disrupt the picture if it is placed directly on the television. Put the center speaker on a rack or shelf.
- To prevent the speakers from falling, do not place directly on top of the television.

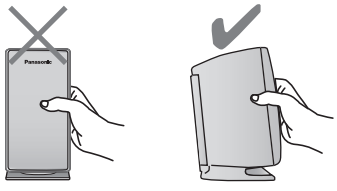
Subwoofer

Place to the right or left of the television, on the floor or a sturdy shelf so that it won't cause vibration. Leave 10 cm at the rear for ventilation.

Caution

Hold the speakers by the sides. Applying pressure to the front net can damage the speaker.

e.g. HT520



Notes on speaker use

- You can damage your speakers and shorten their useful life if you play sound at high levels over extended periods.
- Reduce the volume in the following cases to avoid damage.
  – When playing distorted sound.
  – When the speakers are receiving howling from a record player, noise from FM broadcasts, or continuous signals from an oscillator, test disc, or electronic instrument.
  – When adjusting the sound quality.
  – When turning the unit on or off.

If irregular coloring occurs on your television

The supplied speakers are designed to be used close to a television, but the picture may be affected with some televisions and setup combinations.
If this occurs, turn the television off for about 30 minutes.
The television's demagnetizing function should correct the problem. If it persists, move the speakers farther away from the television.

Caution

- **The main unit and supplied speakers are to be used only as indicated in this setup. Failure to do so may lead to damage to the amplifier and/or the speakers, and may result in the risk of fire. Consult a qualified service person if damage has occurred or if you experience a sudden change in performance.**
- **Do not attempt to attach these speakers to walls using methods other than those described in this manual.**

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STEP 3 Connecting speakers with the subwoofer

Attach the speaker-cable stickers to make connection easier.

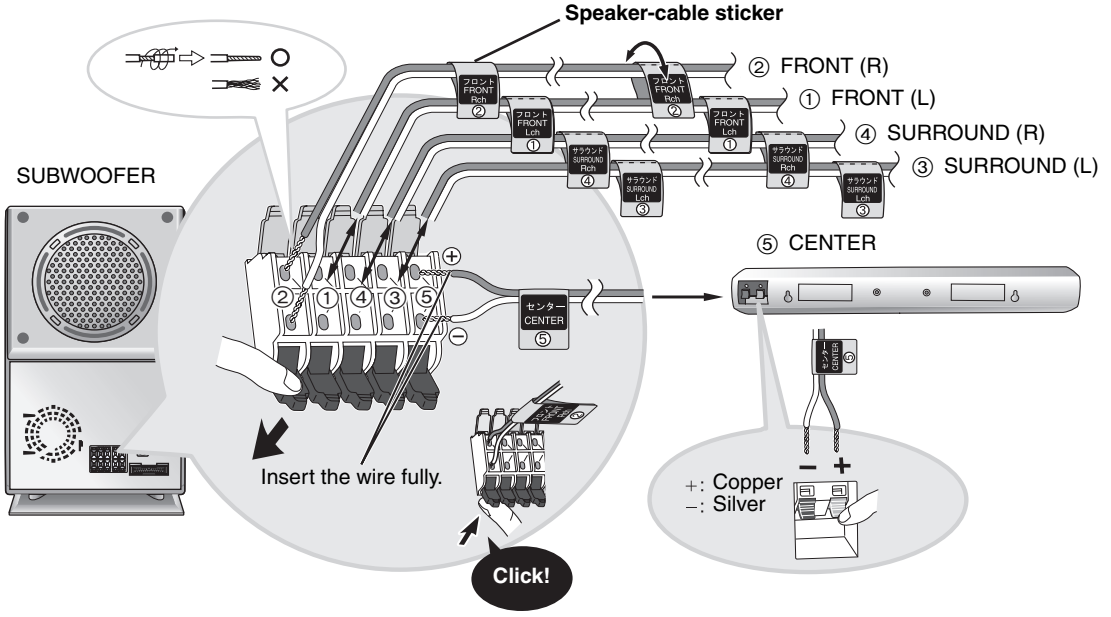
Note

- Never short-circuit positive (+) and negative (−) speaker wires.
- Be sure to connect only positive (copper) wires to positive (+) terminals and negative (silver) wires to negative (−) terminals. Incorrect connection can damage the speakers.

HT878

Speaker cable
- 4-m cable: For center speaker

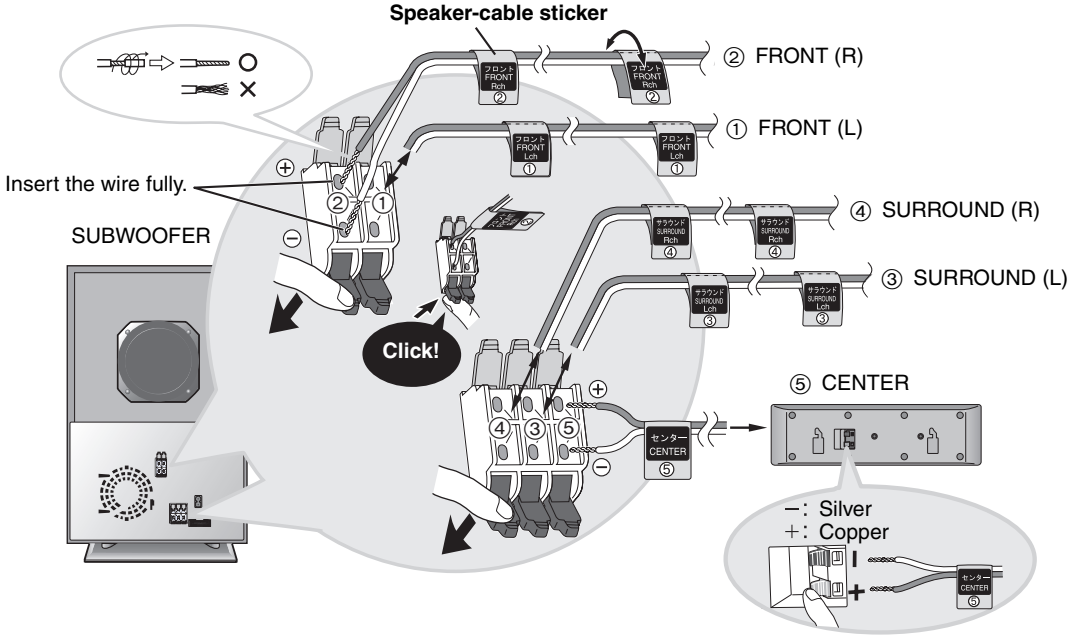
Sheet of speaker-cable stickers



HT870

Speaker cable
- 4-m cable: For center speaker

Sheet of speaker-cable stickers



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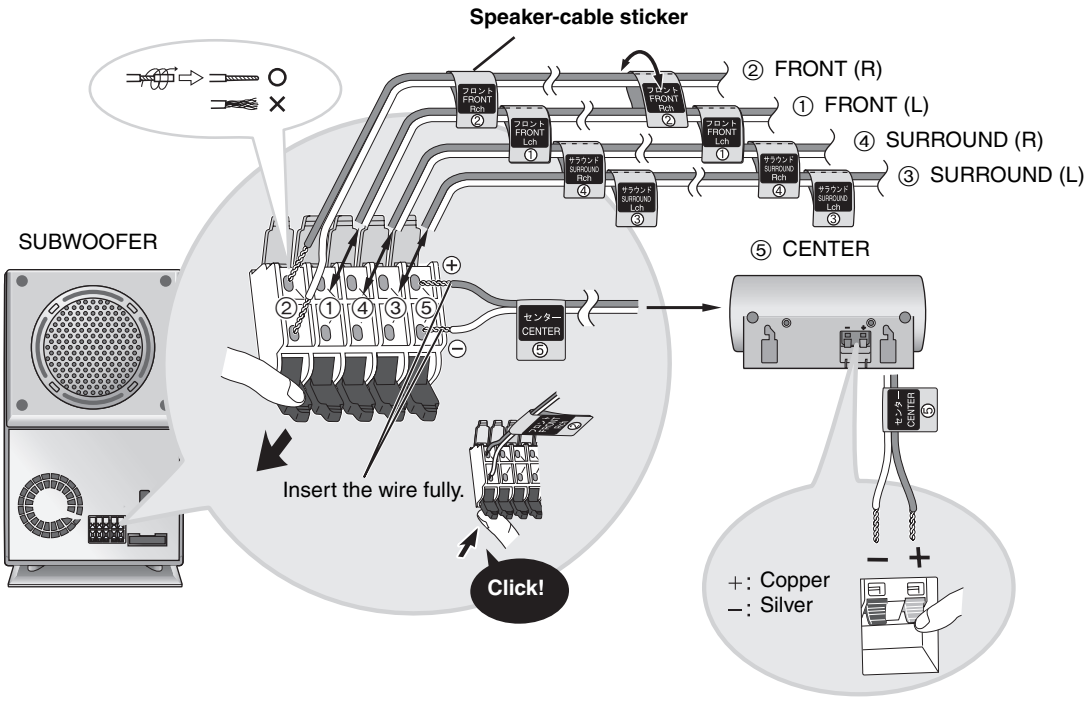
5 speaker cables

- 3×4-m cables: For front and center speakers

- 2×10-m cables: For surround speakers

Sheet of speaker-cable stickers



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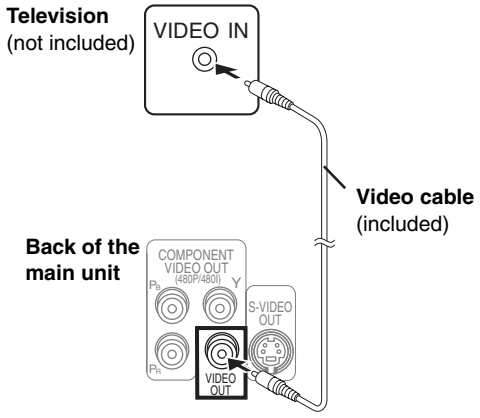
STEP 4 Video connections

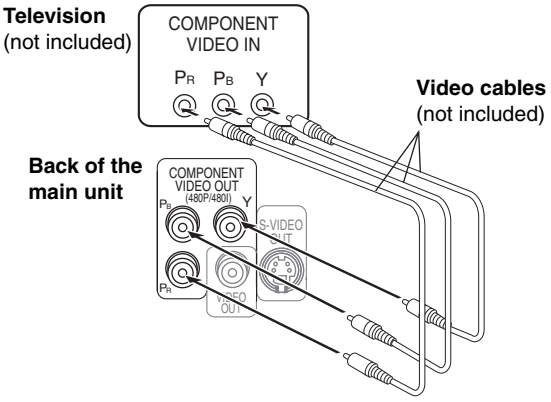
Video cable

- **Do not connect through the video cassette recorder.** Due to copy guard protection, the picture may not display properly.
- Turn the television off before connecting, and refer to the television's operating instructions.

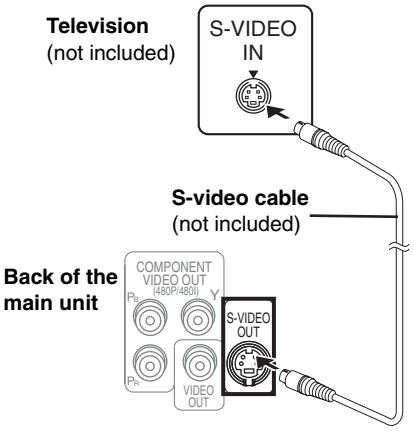
■ Television with a VIDEO IN terminal



■ Television with COMPONENT VIDEO IN terminals

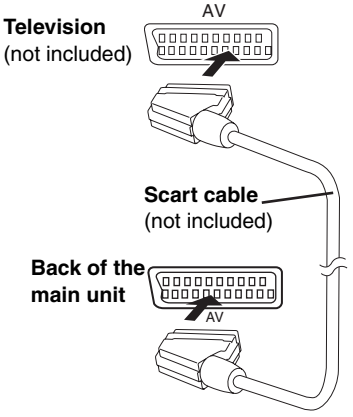


■ Television with an S-VIDEO IN terminal



The United Kingdom, Continental Europe and Russia

■ Television with SCART terminal



S-VIDEO OUT terminal

The S-VIDEO OUT terminal achieves a more vivid picture than the VIDEO OUT terminal by separating the chrominance (C) and luminance (Y) signals. (Actual results depend on the television.)

COMPONENT VIDEO OUT terminals

These terminals can be used for either interlace or progressive output and provide a purer picture than the S-VIDEO OUT terminal. Connection using these terminals outputs the color difference signals (P_B/P_R) and luminance signal (Y) separately in order to achieve high fidelity in reproducing colors.

- The description of the component video input terminals depends on the television or monitor (e.g. Y/P_B/P_R, Y/B-Y/R-Y, Y/C_B/C_R). Connect to terminals of the same color.

The United Kingdom, Continental Europe and Russia

- When making this connection, select "Video/Y PB PR" or "S-Video/Y PB PR" from QUICK SETUP (➜ page 14).

SCART (AV) terminal

To improve picture quality, you can change the video signal output from the SCART (AV) terminal from "Video" to either "S-Video" or "RGB" to suit the type of television you are using. Select "S-Video/Y PB PR" or "RGB/No Output" from QUICK SETUP (➜ page 14).

To enjoy progressive video

- Connect to the component video input terminals on a 480P compatible television. (Video will not be displayed correctly if connected to an incompatible television.)
- When playing NTSC discs, change video output mode to "480P" (➜ page 23) or press [PROGRESSIVE] on the main unit so "PROG." appears on the display.

All Panasonic televisions that have 480P input connectors are compatible. Consult the manufacturer if you have another brand of television.

Note

Output from this unit is interlace if you have connected to the television through the VIDEO OUT, S-VIDEO OUT or SCART (AV) terminal or when playing PAL discs, even if "PROG." is on the display.

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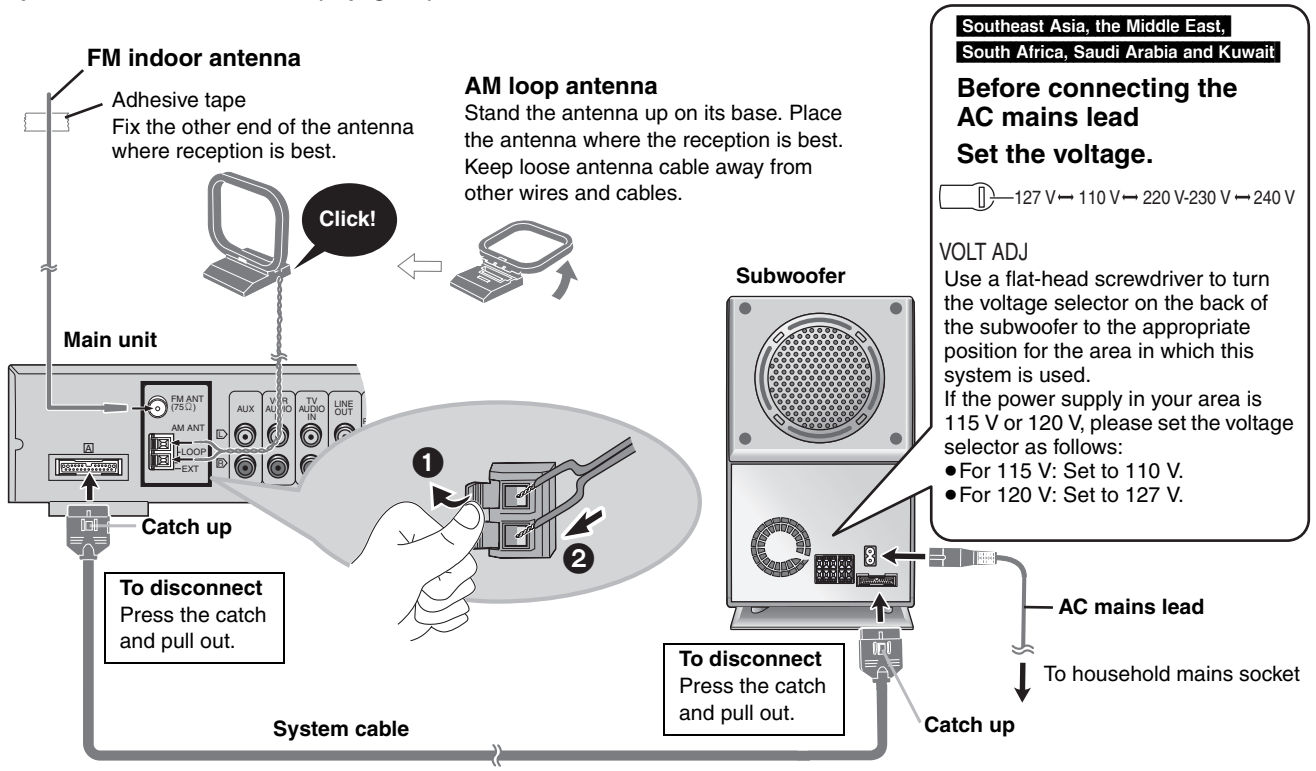
STEP 5 Radio and system connection

System cable | AM loop antenna | FM indoor antenna | AC mains lead (The United Kingdom, Saudi Arabia and Kuwait) | (Australia and N.Z.) | (Continental Europe, Russia, Southeast Asia, the Middle East, South Africa, Saudi Arabia and Kuwait)

- **Connect the AC mains lead after all other connections are complete.**
- **Optional antenna connections (➜ page 27).**


FM indoor antenna
Adhesive tape
Fix the other end of the antenna where reception is best.
AM loop antenna
Stand the antenna up on its base. Place the antenna where the reception is best. Keep loose antenna cable away from other wires and cables.
Click!
Main unit
Catch up
To disconnect
Press the catch and pull out.
Subwoofer
Southeast Asia, the Middle East, South Africa, Saudi Arabia and Kuwait
Before connecting the AC mains lead
Set the voltage.
127 V 110 V 220 V-230 V 240 V
VOLT ADJ
Use a flat-head screwdriver to turn the voltage selector on the back of the subwoofer to the appropriate position for the area in which this system is used.
If the power supply in your area is 115 V or 120 V, please set the voltage selector as follows:
● For 115 V: Set to 110 V.
● For 120 V: Set to 127 V.
AC mains lead
To household mains socket
To disconnect
Press the catch and pull out.
Catch up
System cable

Conserving power

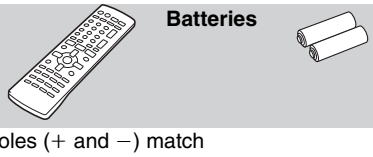
The main unit consumes a small amount of power, even when it is turned off (For the United Kingdom, Continental Europe, Russia, Australia and N.Z.: approx. 0.7 W or for Southeast Asia, the Middle East, South Africa, Saudi Arabia and Kuwait: approx. 0.9 W). To save power when the unit is not to be used for a long time, unplug it from the household mains socket. You will need to reset some memory items after plugging in the unit.

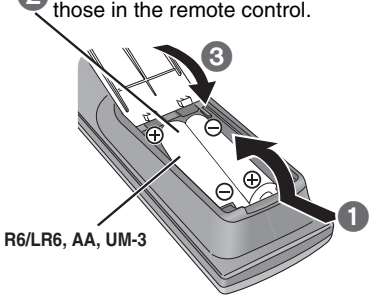
The United Kingdom, Saudi Arabia and Kuwait

BE SURE TO READ THE CAUTION FOR THE AC MAINS LEAD ON PAGE 3 BEFORE CONNECTION.

STEP 6 The remote control

Remote control | Batteries





- Do not use rechargeable type batteries.

Do not:

- mix old and new batteries.
- use different types at the same time.
- heat or expose to flame.
- take apart or short circuit.
- attempt to recharge alkaline or manganese batteries.
- use batteries if the covering has been peeled off.

Mishandling of batteries can cause electrolyte leakage which can damage items the fluid contacts and may cause a fire.

Remove if the remote control is not going to be used for a long period of time. Store in a cool, dark place.

■ Use

Aim at the sensor (➜ page 14), avoiding obstacles, at a maximum range of 7 m directly in front of the unit.

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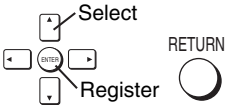
STEP 7 QUICK SETUP

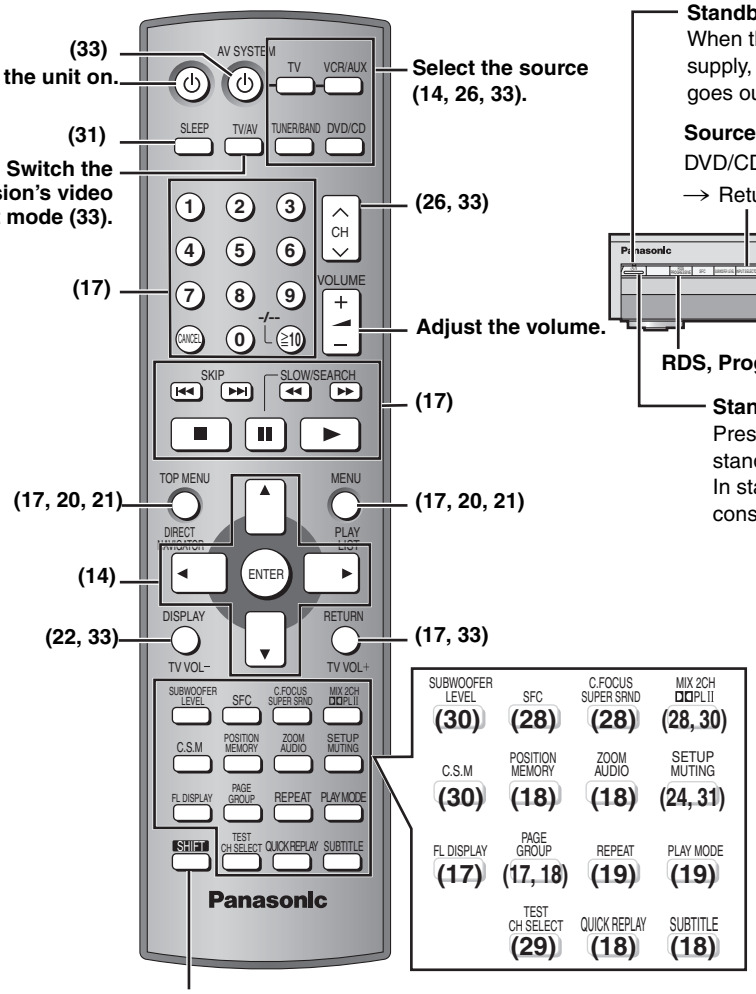
The QUICK SETUP screen assists you to make necessary settings.
Turn on the television and select the appropriate video input on the television.

1	2	3	4	5	6
					
Turn the unit on.	Select “DVD/CD”.	Shows QUICK SETUP screen.	Follow the messages and make the settings.	Press to finish QUICK SETUP.	Press to exit.

To change these settings later
Select “QUICK SETUP” in “Others” tab (➜ page 25).

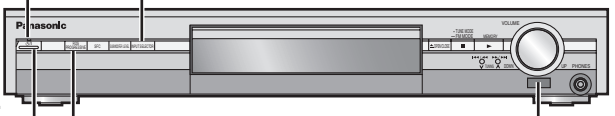
Control reference guide

See reference pages in brackets.



Standby/on indicator
When the unit is connected to the AC mains supply, this indicator lights up in standby mode and goes out when the unit is turned on.

Source select button [INPUT SELECTOR] (26)
DVD/CD → FM → AM → TV → VCR → AUX → Return to DVD/CD



RDS, Progressive button (17, 27)

Standby/on switch [⏻/I]
Press to switch the unit from on to standby mode or vice versa.
In standby mode, the unit is still consuming a small amount of power.

Remote control signal sensor

AC supply indicator (AC IN)
This indicator lights when the unit is connected to the AC mains supply.

To use functions labeled in orange:
While pressing [SHIFT], press the corresponding button.

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Discs that can be played

Disc	Logo	Indication used in operating instructions	Remarks	
DVD-RAM	DVD RAM RAM4.7	RAM	Recorded using Version 1.1 of the Video Recording Format (a unified video recording standard).	●Recorded with DVD-Video recorders, DVD-Video cameras, personal computers, etc. ●Remove TYPE 2 and 4 discs from their cartridges before use.
		JPEG	Recorded using the DCF (Design rule for Camera File system) standard.	●Recorded with Panasonic DVD-Video recorders. ●To play JPEG files, select “Play as Data Disc” in Other Menu (➜ page 23).
DVD-Audio	DVD AUDIO	DVD-A	—	
		DVD-V	Some DVD-Audio discs contain DVD-Video content. To play DVD-Video content, select “Play as DVD-Video” in Other Menu (➜ page 23)	
DVD-Video	DVD VIDEO DVD VIDEO	DVD-V	—	
DVD-R	DVD R R4.7		Panasonic DVD-R recorded and finalized※ on Panasonic DVD-Video recorders or DVD-Video cameras are played as DVD-Video on this unit.	
Video CD	COMPACT disc DIGITAL VIDEO	VCD	—	
SVCD	COMPACT disc SUPER VIDEO		Conforming to IEC62107	
CD	COMPACT disc DIGITAL AUDIO COMPACT disc DIGITAL AUDIO TEXT	CD	This unit is compatible with HDCD, but does not support the Peak Extend function. (A function which expands the dynamic range of high level signals) HDCD-encoded CDs sound better because they are encoded with 20 bits, as compared with 16 bits for all other CDs. ●During HDCD play, “HDCD” lights on the unit’s display.	
CD-R CD-RW	—	WMA MP3 JPEG CD VCD	●This unit can play CD-R/RW (audio recording disc) recorded with the formats on the left. Close the sessions or finalize※ the disc after recording. ●**HighMAT discs** WMA, MP3 or JPEG files only. To play without using the HighMAT function, select “Play as Data Disc” in Other Menu (➜ page 23).	

※A process that allows play on compatible equipment.

●It may not be possible to play the above discs in all cases due to the type of disc or condition of the recording.

■ Discs that cannot be played

DVD-ROM, CD-ROM, CDV, CD-G, DVD+R, +RW, DVD-RW, SACD, Divx Video Discs and Photo CD, DVD-RAM that cannot be removed from their cartridge, 2.6-GB and 5.2-GB DVD-RAM, and “Chaoji VCD” available on the market including CVD, DVCD and SVCD that do not conform to IEC62107.

■ Audio format of DVDs

This unit automatically recognizes and decodes discs with these symbols.

DOLBY DIGITAL

DIGITAL dts SURROUND

■ Video systems

– This unit can play PAL and NTSC, but your television must match the system used on the disc.
– PAL discs cannot be correctly viewed on an NTSC television.
– This unit can convert NTSC signals to PAL 60 for viewing on a PAL television (➜ page 24, “NTSC Disc Output” in “Video” tab).

HIGH MAT AUDIO·IMAGE

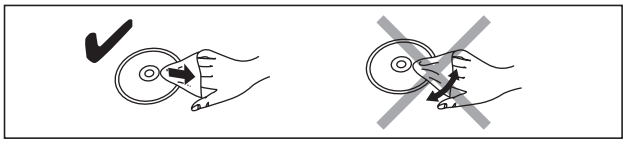
HighMAT™ and the HighMAT logo are either trademarks or registered trademarks of Microsoft Corporation in the United States and/or other countries.

Disc handling

■ To clean discs

DVD-A DVD-V VCD CD

Wipe with a damp cloth and then wipe dry.



RAM DVD-R

●Clean with an optional DVD-RAM/PD disc cleaner (LF-K200DCA1, where available).
●Never use cloths or cleaners for CDs, etc.

■ Disc handling precautions

●Do not attach labels or stickers to discs (This may cause disc warping, rendering it unusable).
●Do not write on the label side with a ball-point pen or other writing instrument.
●Do not use record cleaning sprays, benzine, thinner, static electricity prevention liquids or any other solvent.
●Do not use scratch-proof protectors or covers.
●Do not use the following discs:
– Discs with exposed adhesive from removed stickers or labels (rented discs, etc.).
– Discs that are badly warped or cracked.
– Irregularly shaped discs, such as heart shapes.

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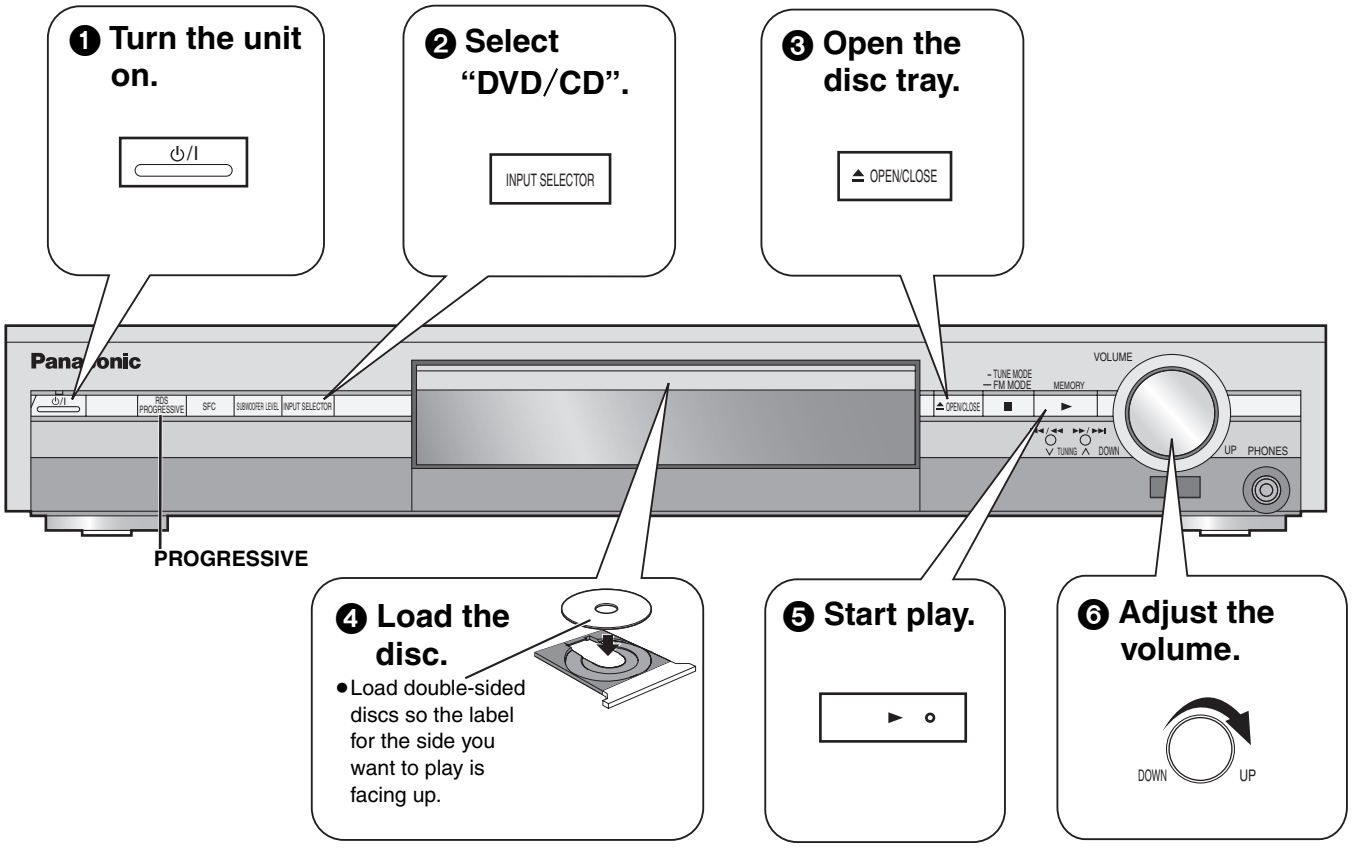

Note

Discs continue to rotate while menus are displayed. Press [■] when you finish to preserve the unit's motor and your television screen.

If you are experiencing problems, refer to troubleshooting (➜ page 38, 39).

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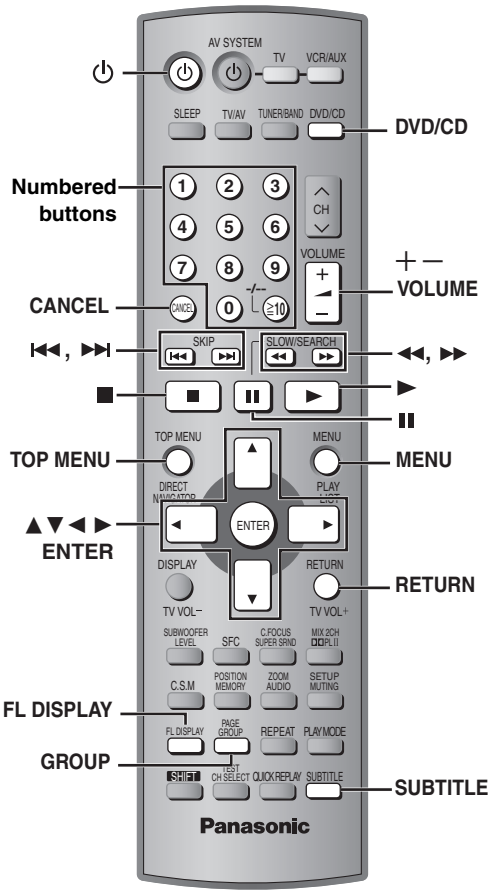

Stop

■

The position is memorized while "RESUME" is on the display.

- Press [▶] (play) to resume.
- DVD-V **To review the previous chapters** (➜ page 18, Position memory)
- Press [■] to clear the position.

Pause

II

- Press [▶] (play) to start play.

Skip

SKIP ◀◀ ▶▶

- WMA MP3 JPEG **[▲ ▼]: Group skip during play**
- **[◀ ▶]: Content skip during play**

Search (during play)
Slow-motion (during pause)

SLOW/SEARCH ◀◀ ▶▶

- Up to 5 steps.
- Press [▶] (play) to start play.
- VCD Slow motion, forward direction only.

Progressive video

Main unit only

RDS PROGRESSIVE

PROG.

Frame-by-frame (during pause)

- VCD Forward direction only.

On-screen item select

Select / Register

Enter number

RAM DVD-A DVD-V VCD CD
e.g. To select 12:
[≧10] ➜ [1] ➜ [2]

VCD with playback control
While stopped, press the numbered buttons.

WMA MP3 JPEG
e.g. To select 123:
[1] ➜ [2] ➜ [3] ➜ [ENTER]

ENTER

CANCEL

- Press [CANCEL] to cancel the number(s).

Starting play from a selected group

DVD-A WMA MP3 JPEG
A folder on WMA/MP3 and JPEG discs is treated as a "Group".

PAGE GROUP → Select / Register

Return to previous screen

RETURN

Main unit display

FL DISPLAY

RAM DVD-A DVD-V WMA MP3
Time display↔Number display

JPEG
When Slideshow is on:
SLIDE⟷Number display
When Slideshow is off:
PLAY⟷Number display

Information screen

SUBTITLE

WMA MP3 JPEG
CD (CD text only)
Turns the information screen on/off

Disc menu

TOP MENU

DVD-A DVD-V
Shows a disc top menu

MENU

DVD-V
Shows a disc menu

RETURN

VCD
Shows a disc menu

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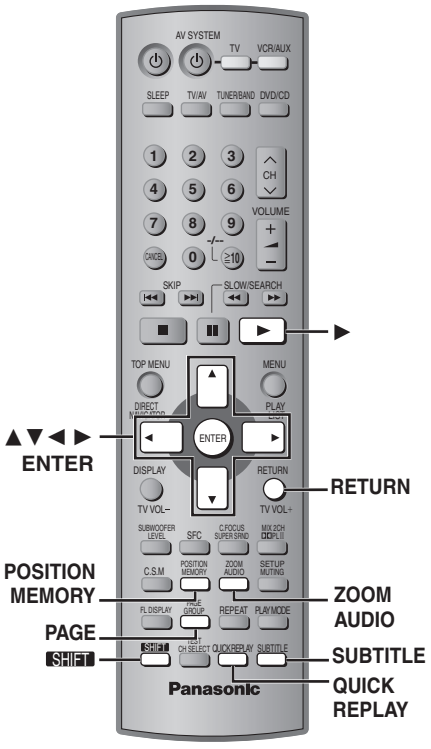


POSITION MEMORY

Position memory

Memorizes the position to resume play.

SHIFT + ZOOM AUDIO

Zoom

Expands the letterbox picture to fit the screen.

ZOOM AUDIO

Audio

Changes the soundtrack.

SUBTITLE

Subtitle

Changes the subtitle language.

QUICK REPLAY

Quick replay

Replays a scene.

SHIFT + PAGE GROUP

Page skip

Selects still pictures.

See below for details.

Position memory

(Only when the elapsed play time can be displayed.
JPEG: Works with all JPEG content.)

This position is memorized even after turning off the unit, changing the source or changing the disc.

Press [POSITION MEMORY].

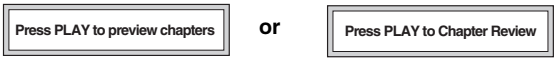
- Up to 5 discs.
- When the sixth disc is memorized, the earliest position is replaced.

When the unit is turned on, “DVD/CD” is reselected or the disc is inserted, “RESUME” displays.

Press [►] (play) to start play from that position.

To review the previous chapters DVD-V

Press [►] (play) while the following message is displayed.



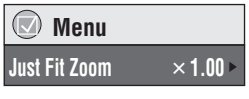
The beginning portions of each chapter up to the current one are played.

- Do not press [►] (play) if you want to cancel review.

Zoom

RAM DVD-V VCD

Press [SHIFT]+[ZOOM] several times to select the preset aspect ratio or “Auto”. (Just Fit Zoom)



Fine adjustments (Manual Zoom)

Press [◄ ►].

–from ×1.00 to ×1.60 (in 0.01 units)

–from ×1.60 to ×2.00 (in 0.02 units)

- Press and hold [◄ ►] to alter faster.

Audio

DVD-A DVD-V (with multiple soundtracks) RAM VCD

Press [AUDIO] several times to select the soundtrack.

RAM VCD

You can use this button to select “L”, “R” or “LR”.

DVD-V (Karaoke discs)

Press [◄ ►] to select “On” or “Off” of vocals.

Read the disc’s instructions for details.

Subtitle

DVD-V (with multiple subtitles) VCD (SVCD only)
RAM (On/Off only)

Press [SUBTITLE] several times to select the subtitle language.

To clear/display the subtitles

Press [◄ ►] to select “On” or “Off”.

Quick replay

(Only when the elapsed play time can be displayed.)

Press [QUICK REPLAY] to skip back a few seconds.

Page skip

DVD-A

During play or while paused

Press [SHIFT] + [PAGE].

The page changes each time you do this.

- Press [RETURN] to go back to page 1.

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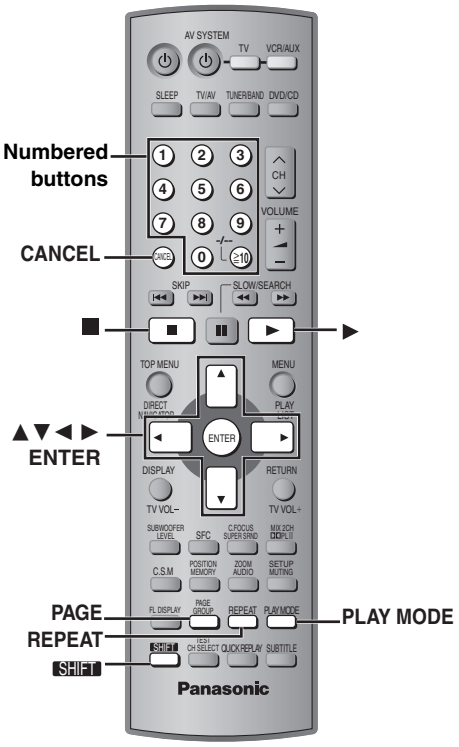


REPEAT

Repeat play

All group, random and program play

DVD-A DVD-V WMA MP3 JPEG
VCD CD (There is no on-screen display.)
Each time you press the button while stopped:
All group (DVD-A)→Program→ Random→off (Normal play)

PLAY MODE

To exit all group, program and random mode
Press [PLAY MODE] several times while stopped.

- Disable HighMAT disc play to use random and program play. Select "Play as Data Disc" in Other Menu (➜ page 23).
- DVD-A Some discs contain bonus groups. If a password screen appears after selecting a group, enter the password with the numbered buttons to play the bonus group. Refer also to the disc's jacket.

See below for details.

Repeat play

(Only when the elapsed play time can be displayed.
JPEG: Works with all JPEG content.)

During play

Press [REPEAT] several times to select an item to be repeated.

RAM
PG REPEAT→ ALL REPEAT (Entire disc)→ REPEAT OFF
- During play list play
  SCENE REPEAT→ PL REPEAT→ REPEAT OFF

DVD-A
TRACK REPEAT→ GROUP REPEAT※→ REPEAT OFF

DVD-V
CHAPTER REPEAT→ TITLE REPEAT※→ REPEAT OFF

VCD CD (There is no on-screen display.)
TRACK REPEAT→ ALL REPEAT (Entire disc)→ REPEAT OFF

WMA MP3 (There is no on-screen display.)
CONTENT REPEAT→ GROUP REPEAT※→ REPEAT OFF

JPEG (There is no on-screen display.)
GROUP REPEAT※→ REPEAT OFF

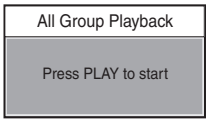
※During all group (DVD-A), program and random play "ALL REPEAT" is displayed.

All group, random and program play

■ All group play

DVD-A

Press [▶] (play).



■ Random play

1 DVD-A DVD-V WMA MP3 JPEG

Press the numbered buttons to select a title or a group (WMA MP3 JPEG) then press [ENTER]).

e.g. DVD-V

DVD-A
- To enter all groups, press [◀ ▶] to select "All" and press [ENTER].
- To deselect a group, press the numbered buttons corresponding to the group you want to clear.

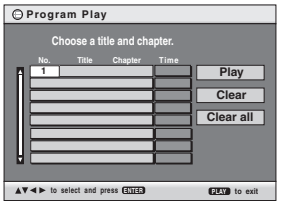
2 **Press [▶] (play).**

- You can play a maximum of 999 audio/picture contents in random order.

■ Program play (up to 24 items)

1 **Press the numbered buttons to select the items (WMA MP3 JPEG) then press [ENTER]).**

e.g. DVD-V



- **To select a 2-digit number**
  e.g. To select 25:
  [≧10]➜[2]➜[5]
  WMA MP3 JPEG
  [2]➜[5]➜[ENTER]
- Repeat this step to program other items.

e.g. CD

2 **Press [▶] (play).**

To select all the items DVD-A DVD-V WMA MP3 JPEG
(on the disc or in the title or group)
Press [ENTER] and [▲ ▼] to select "ALL", then press [ENTER] again to register.

To change the program

DVD-A DVD-V WMA MP3 JPEG
Press [▲ ▼] to select an item.
– To change an item, repeat step 1.
– To clear an item, press [CANCEL] (or select "Clear" and press [ENTER]).
- Press [SHIFT]+[PAGE] to skip 8 lines at a time.

VCD CD
Each time [CANCEL] is pressed, the displayed item is cleared.

To clear the whole program

DVD-A DVD-V WMA MP3 JPEG
Press [▲ ▼ ◀ ▶] to select "Clear all" and press [ENTER].
VCD CD
While stopped, press [■] to clear all.

The whole program is also cleared when the unit is turned off, the disc tray is opened or another source is selected.
VCD CD The program is retained in memory.

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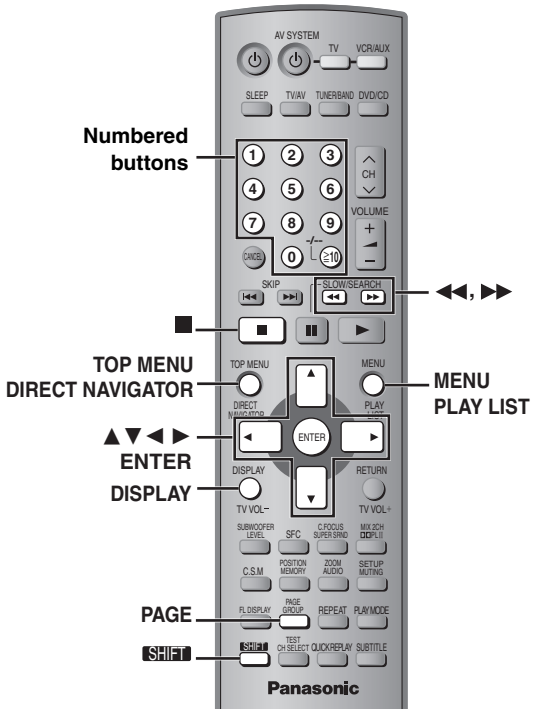


TOP MENU or MENU	Playing data discs
TOP MENU or MENU	Playing HighMAT™ discs
DIRECT NAVIGATOR	Playing the programs
PLAY LIST	Playing a play list

See below and the following page for details.

Playing data discs

WMA MP3 JPEG

You can play JPEG files on DVD-RAM or play HighMAT discs without using the HighMAT function (➜ page 23, “Play as Data Disc” in Other Menu).

■ Using playback menus (except JPEG files on DVD-RAM)

1 Press [TOP MENU].

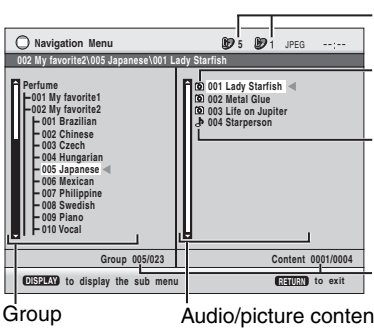
2 Press [▲ ▼] to select “All”, “Audio” or “Picture” and press [ENTER].

- **To exit the screen**
  Press [TOP MENU].

■ Using navigation menus

1 Press [MENU].

2 Press [▲ ▼ ◀ ▶] to select the group or audio/picture content and press [ENTER].



Group and content number currently playing

: JPEG files

: WMA/MP3 files

Number currently selected

Group

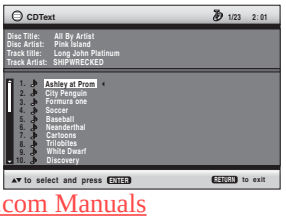
Audio/picture contents

- **To enjoy listening to WMA/MP3 contents while showing a JPEG image on the screen**
  Select a JPEG file first, and then select tracks.
  (The opposite order is not effective.)
- **To exit the screen**
  Press [MENU].

To use the contents screen to find a track

CD (CD text only)

1 Press [TOP MENU] or [MENU].



2 Press [▲ ▼] to move through the tracks and press [ENTER].

- Press [SHIFT]+[PAGE] to skip 10 lines at a time.

Using the submenu WMA MP3 JPEG

1 While the menu is displayed
Press [DISPLAY].
Items shown differ depending on the type of software.

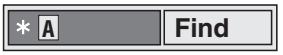
✓Multi	Groups and content
List	Contents only
Tree	Groups only
Thumbnail	Thumbnail images JPEG
Next group	To go to next groups WMA MP3
Previous group	To go to previous groups WMA MP3
All	WMA/MP3 and JPEG files
Audio	WMA/MP3 files only
Picture	JPEG files only
Help display	To switch between guide messages and the elapsed play time indicator
Find	To search by content or group title (➜below)

2 Press [▲ ▼] to select the sub menu and press [ENTER].

■ Searching by content or group title WMA MP3 JPEG

Place the cursor on the group title to search a group, or place the cursor on the content title to search contents.

1 Select “Find” (➜ above).



2 Press [▲ ▼] to select a character and press [ENTER].
- Repeat to enter another characters.
- Lower case is also searched.
- Press [◀◀ ▶▶] to skip between A, E, I, O and U.
- Press [◀] to erase a character.
- Erase the asterisk (*) to search for the titles starting with that character.

3 Press [▶] to select “Find” and press [ENTER].
The search result screen appears.

4 Press [▲ ▼] to select the content or group and press [ENTER].

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Playing HighMAT™ discs

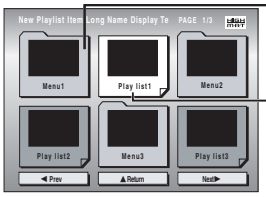
WMA MP3 JPEG

1 **While stopped**

Press [TOP MENU].

2 **Press [▲ ▼ ◄ ►] to select the item following the on-screen instructions.**

e.g.



Menu: Takes you to the next menu which shows play lists or another menu

Play list: play starts

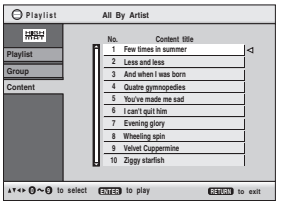
●**To change the menu background**
Press [DISPLAY].
The background changes to the one recorded on the disc.

●**To exit the screen**
Press [■].

■ Selecting from the list

1 **During play**

Press [MENU].



2 **Press [◄] then [▲ ▼] to switch among Playlist, Group and Content lists.**

3 **Press [►] then [▲ ▼] to select an item and press [ENTER].**

●Press [SHIFT]+[PAGE] to skip 10 lines at a time.

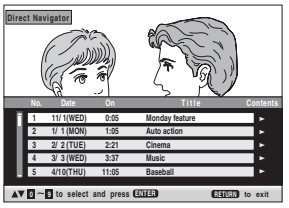
●**To exit the screen**
Press [MENU].

Playing the programs

RAM

1 **Press [DIRECT NAVIGATOR].**

●Titles appear only if you have entered them.
●You cannot change program and disc titles.


Direct Navigator
No. Date On Title Contents
1 11/ 1(WED) 0:05 Monday feature
2 1/ 1 (MON) 1:05 Auto action
3 2/ 2 (TUE) 2:21 Cinema
4 3/ 3 (WED) 3:37 Music
5 4/10(THU) 11:05 Baseball
to select and press ENTER
RETURN to exit

2 **Press [▲ ▼] or the numbered buttons to select the program.**

●Press [SHIFT]+[PAGE] to skip 5 lines at a time.
●**To select a 2-digit number**
e.g. 23: [≧10] ➜ [2] ➜ [3]
●Press [►] to show the contents of the program and the disc.

3 **Press [ENTER].**

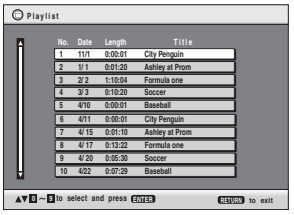
●**To exit the screen**
Press [DIRECT NAVIGATOR].

Playing a play list

RAM

(Only when the disc contains a play list)

1 **Press [PLAY LIST].**


Playlist
No. Date Length Title
1 11/1 0:00:01 City Penguin
2 1/ 1 0:01:20 Ashley at Prom
3 2/ 2 1:10:04 Formula one
4 3/ 3 0:10:20 Soccer
5 4/10 0:00:01 Baseball
6 4/11 0:00:01 City Penguin
7 4/ 15 0:01:10 Ashley at Prom
8 4/ 17 0:13:22 Formula one
9 4/ 20 0:05:30 Soccer
10 4/22 0:07:29 Baseball
to select and press ENTER
RETURN to exit

2 **Press [▲ ▼] or the numbered buttons to select the play list.**

●Press [SHIFT]+[PAGE] to skip 10 lines at a time.
●**To select a 2-digit number**
e.g. 23: [≧10] ➜ [2] ➜ [3]

3 **Press [ENTER].**

●**To exit the screen**
Press [PLAY LIST].

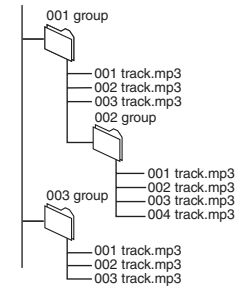
Tips for making WMA/MP3 and JPEG discs (For CD-R, CD-RW)

●Discs must conform to ISO9660 level 1 or 2 (except for extended formats).
●This unit is compatible with multi-session but if there are a lot of sessions it takes more time for play to start. Keep the number of sessions to a minimum to avoid this.

Naming folders and files

At the time of recording, prefix folder and file names with 3-digit numbers in the order you want to play them (this may not work at times).
Files must have the extension:
".WMA" or ".wma"
".MP3" or ".mp3"
".JPG", ".jpg", ".JPEG" or ".jpeg"

e.g. MP3



WMA

●You cannot play WMA files that are copy protected.

MP3

●This unit is not compatible with ID3 tags.
●Compatible sampling rate: 8, 11.02, 12, 16, 22.05, 24, 32, 44.1 and 48 kHz

JPEG

●To view JPEG files on this unit:
– Take them on a digital camera that meets the DCF Standard (Design rule for Camera File system) Version 1.0. Some digital cameras have functions that are not supported by the DCF Standard Version 1.0 like automatic picture rotation which may render a picture un-viewable.
– Do not alter the files in any way or save them under a different name.
●This unit cannot display moving pictures, MOTION JPEG and other such formats, still pictures other than JPEG (e.g. TIFF) or play associated sound.

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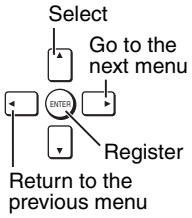
(Refer to page 14 for remote control button positions.)

1

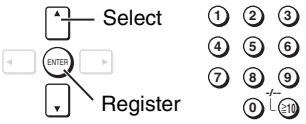
Press once.
(When pressed twice, the elapsed play time indicator appears ➜ below.)
Items shown differ depending on the type of software.

2



Select the menu.

3



Make the settings.

4

Press to exit.

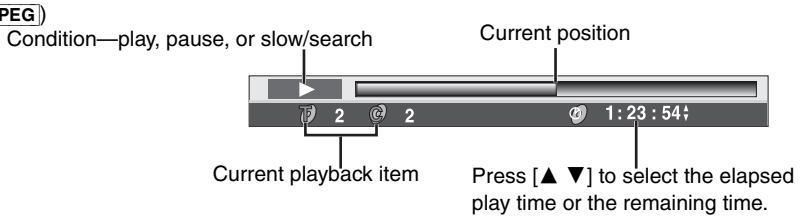
Main Menu

Program **Group** **Title** **Chapter** **Track** **Playlist** **Content**	**To start from a specific item**
Time	**To skip incrementally or decrementally (Time Slip)** 1 Press [ENTER] twice to show Time Slip indicator. 2 Press [▲ ▼] to select the time and press [ENTER]. ●Press and hold [▲ ▼] to alter faster. **To start from a specific time (Time Search)** **To change remaining/elapsed time display**
Audio	(➜ page 18)
	WMA MP3 **To display the current bitrate or sampling frequency**

Still Picture	**To switch still picture**
Thumbnail	**To show thumbnail images**
Subtitle	(➜ page 18)
Marker (VR)	RAM **To recall a marker recorded on DVD-Video recorders** To recall a marker: [▲ ▼] ➜ [ENTER]
Angle	(with multiple angles) **To select the angle**
Rotate Picture	**To rotate pictures**
Slideshow	**To turn on/off slideshow** **To change the slideshow timing (0–30 sec)**

■Elapsed play time indicator

(Except JPEG)



Other Settings

Play Speed	DVD-A (Motion picture part) RAM DVD-V **To change play speed** – from ×0.6 to ×1.4 (in 0.1 unit steps) ●After you change the speed – Output is in stereo. – Sampling frequency of 96 kHz is converted to 48 kHz.

■ Play Menu

(Only when the elapsed play time can be displayed.
JPEG: Works with all JPEG content.)

Repeat	(➜ page 19)

A-B Repeat	Except JPEG RAM (Still picture part) **To repeat a specified section** Press [ENTER] at the starting and ending points. Press [ENTER] again to cancel.
Marker	Except RAM **To mark up to 5 positions to play again** [ENTER] (The unit is now ready to accept markers.) To mark a position: [ENTER] (at the desired point) To mark another position: [◄ ►] ➜ [ENTER] To recall a marker: [◄ ►] ➜ [ENTER] To erase a marker: [◄ ►] ➜ [CANCEL] ●This feature does not work during program and random play.

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■ Picture Menu

Picture Mode	**Normal** **Cinema1:** Mellows images and enhances detail in dark scenes. **Cinema2:** Sharpens images and enhances detail in dark scenes. **Animation** **Dynamic** **User** (Press [ENTER] to select "**Picture Adjustment**") (➜ below) **Picture Adjustment** **Contrast** **Brightness** **Sharpness** **Colour** **Gamma** (Adjusts the brightness of dark parts.) **Depth Enhancer** Reduces the rough noise in the background to give a greater feeling of depth. This does not work while using Cinema1 or 2 (➜ above).
Video Output Mode	When playing NTSC discs ●**480I** (Interlace) ⟷ **480P** (Progressive)
Transfer Mode	If you have chosen "480P" (➜ above), select the method of conversion for progressive output to suit the type of material. **Auto1**(normal)**:** For viewing film material **Auto2:** For viewing film material (the same as Auto1, but able to convert 30-frame-per-second progressive video) **Video:** For video material

■ Audio Menu

Dolby Pro Logic II	(➜ page 28)
Dialogue Enhancer	**To make the dialogue in movies easier to hear** DVD-V (Dolby Digital, DTS, MPEG, 3-channel or over, with the dialogue recorded in the center channel) **On ⟷ Off**
Multi Re-master	RAM DVD-V (Discs recorded with 48 kHz only) DVD-A (Discs recorded with 44.1 kHz and 48 kHz only) VCD CD ●During 2ch output of these discs, this feature gives you a more natural sound by adding the higher frequency signals not recorded on the disc, for example, playing DVD-Video recorded with 48 kHz at 96 kHz. (Sampling frequency ➜ page 35) ●During multi-channel output of these discs, this feature reproduces the frequencies lost during recording to give you a sound closer to the original. WMA MP3 (Disc recording is other than 8 kHz, 16 kHz, 32 kHz) This feature reproduces the higher frequencies lost during recording to give you a sound closer to the original. **1 → 2 → 3 →Off** ↑———————┘ DVD-A DVD-V CD (LPCM/PPCM) **1** High tempo (e.g., pop and rock) **2** Various tempos (e.g., jazz) **3** Low tempo (e.g., classical) **Other discs** **1** Light effect **2** Medium effect **3** Strong effect

■ Display Menu

Information	**On ⟷ Off** (JPEG: **Off, Date, Details**)
Subtitle Position	**0 to −60 (in 2 unit steps)**
Subtitle Brightness	**Auto, 0 to −7**
4:3 Aspect	**To select how to show images made for 4:3 aspect screens on a 16:9 aspect television** **Normal:** Horizontally stretches images. **Auto:** Expands 4:3 letterbox images to fill more of the screen. Other images appear in full in the center of the screen. **Shrink:** Images appear in the center of the screen. **Zoom:** Expands all images to fill the screen. If your television has a similar feature, use it instead for a better effect.
Just Fit Zoom	**To select the appropriate screen size to fit your TV screen**
Manual Zoom	**To zoom in and out manually**
Bitrate Display	RAM DVD-V VCD DVD-A (Motion picture part) **On ⟷ Off**
GUI See-through	**On ⟷ Off**
GUI Brightness	**−3 to +3**

■ Other Menu

Play as DVD-Video or **Play as DVD-Audio**	While stopped ●Select "Play as DVD-Video" to play DVD-Video contents of DVD-Audio.
Play as DVD-VR, Play as HighMAT or **Play as Data Disc**	While stopped ●Select "Play as Data Disc" to play JPEG files on DVD-RAM or to play a HighMAT disc without using the HighMAT function.

Signal type/data
LPCM/PPCM/Digital/DTS/MPEG: Signal type
kHz(Sampling frequency)/bit/ch(Number of channels)

Example: 3/2 .1ch

- .1: Low frequency effect (not displayed if there is no signal)
- 0: No surround
  1: Mono surround
  2: Stereo surround (left/right)
- 1: Center
  2: Front left+Front right
  3: Front left+Front right+Center

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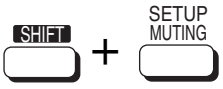
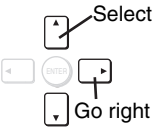
(Refer to page 14 for remote control button positions.)

1



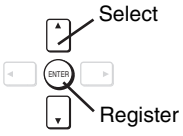
Shows Setup menu.

2



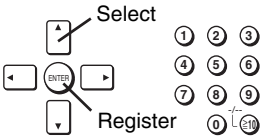
Select the tab.

3



Select the item.

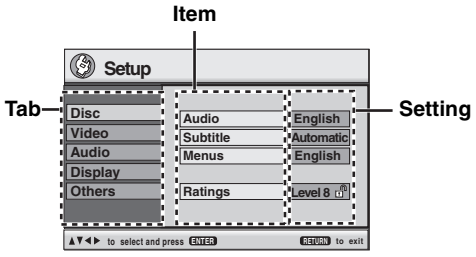
4



Make the settings.

5

Press to exit.



- The settings remain intact even if you switch the unit to standby.
- Underlined items are the factory preset.

The QUICK SETUP enables successive settings of the items in the shaded area.

■ "Disc" tab

Audio Choose the audio language.	● English ● (Language options)※1 ● Original※2 ● Other∗∗∗∗※3
Subtitle Choose the subtitle language.	● Automatic※4 ● English ● (Language options)※1 ● Other∗∗∗∗※3
Menus Choose the language for disc menus. Changing the menu language from QUICK SETUP also changes this setting.	● English ● (Language options)※1 ● Other∗∗∗∗※3
Ratings Set a ratings level to limit DVD-Video play. ● Follow the on-screen instructions.	Setting ratings (When level 8 is selected) ● 8 No Limit ● 1 to 7 ● 0 Lock All: To prevent play of discs without ratings levels. Changing ratings (When level 0–7 is selected) ● Unlock Player ● Change Password ● Change Level ● Temporary Unlock

※1 Language options
Southeast Asia: Chinese
Others: French, German, Italian, Spanish, Portuguese, Swedish and Dutch

※2 The original language designed on the disc is selected.
※3 Input a code number referring to the table on page 34.
※4 If the language selected for "Audio" is not available, subtitle appears in that language (If available on the disc).

■ "Video" tab

TV Aspect Choose the setting to suit your television and preference.	● 4:3 Pan&Scan: Regular aspect television (4:3) The sides of the widescreen picture are cut off so it fills the screen (unless prohibited by the disc). ● 4:3 Letterbox: Regular aspect television (4:3) Widescreen picture is shown in the letterbox style. ● 16:9: Widescreen television (16:9)
TV Type Select to suit the type of television.	● Standard (Direct View TV) ● CRT Projector ● LCD TV/Projector ● Projection TV ● Plasma TV
Time Delay When connected with a Plasma display, adjust if you notice the audio is out of sync with the video.	● 0ms ● 20ms ● 40ms ● 60ms ● 80ms ● 100ms
Video Out (AV/Component)※5 Choose the video signal format to be output from the SCART (AV) and Component terminal.	● Video/Y PB PR ● S-Video/Y PB PR ● RGB/No Output
Still Mode Specify the type of picture shown when paused.	● Automatic ● Field: The picture is not blurred, but picture quality is lower. ● Frame: Overall quality is high, but the picture may appear blurred.
NTSC Disc Output Choose PAL 60 or NTSC output when playing NTSC discs (➜ page 15)	● PAL60: When connected to a PAL television ● NTSC: When connected to an NTSC television (Southeast Asia: "NTSC" is the factory preset.)

※5 The United Kingdom, Continental Europe and Russia

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■ “Audio” tab

Dynamic Range Compression	●Off ●On: Adjust for clarity even when the volume is low through compressing the range of the lowest sound level and the highest sound level. Convenient for late night viewing. (Only works with Dolby Digital)
Audio during Search	●On ●Off
Speaker Setting (➜ below) Set the delay time for your center and surround speakers.	●Center: 0.0/1.0/2.0/3.0/4.0/5.0 ms ●Surround (L/R): 0.0/5.0/10.0/15.0 ms

■“Display” tab

Menu Language	※6 ● English ● 中文 ※7 ● English ● Français ● Deutsch ● Italiano ● Español ● Português ● Svenska ● Nederlands
On-Screen Messages	●On ●Off

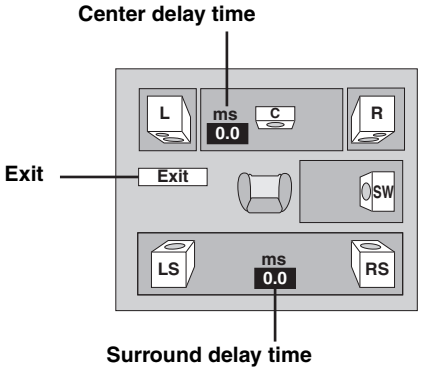
※6 **Southeast Asia** ※7 **Except Southeast Asia**

■ “Others” tab

FL Dimmer	●Bright ●Dim ●Auto: The display is dimmed during play, but brightens when you perform some operations.
HighMAT	●Enable ●Disable (Unable to use the HighMAT function)
QUICK SETUP	●Yes ●No
Re-initialize Setting This returns all values in the Setup menus to the default settings.	●Yes: The password screen is shown if Ratings (➜ page 24) are set. Please enter the same password. After “INIT” on the display disappears, turn the unit off and on again. ●No

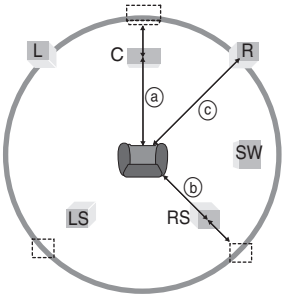
Changing the delay time (Speaker Setting)

(Effective when playing multi-channel audio)
(Center and surround speakers only)
For optimum listening with 5.1-channel sound, all the speakers, except for the subwoofer, should be the same distance from the seating position. If you have to place the center or surround speakers closer to the seating position, adjust the delay time to make up for the difference.



1 Press [▲ ▼] to select the delay time box and press [ENTER].
2 Press [▲ ▼] to adjust the delay time and press [ENTER].

If either distance ⓐ or ⓑ is less than ⓒ, find the difference in the relevant table and change to the recommended setting.



ⓐ Center speaker

Difference	Setting
Approx. 34 cm	1.0 ms
Approx. 68 cm	2.0 ms
Approx. 102 cm	3.0 ms
Approx. 136 cm	4.0 ms
Approx. 170 cm	5.0 ms

ⓑ Surround speakers

Difference	Setting
Approx. 170 cm	5.0 ms
Approx. 340 cm	10.0 ms
Approx. 510 cm	15.0 ms

To finish the speaker setting
Press [◀] to select “Exit” and press [ENTER].

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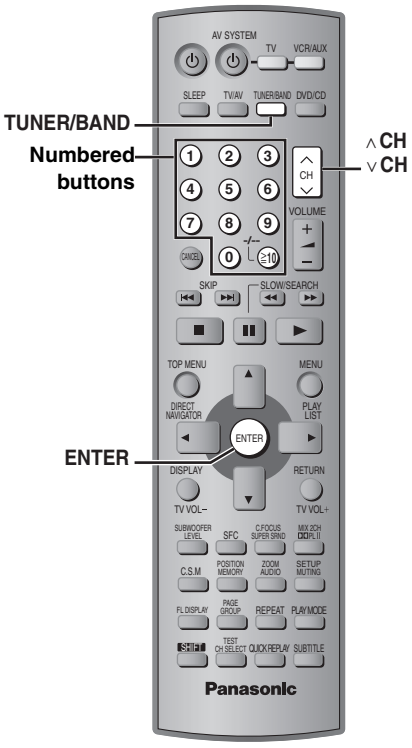

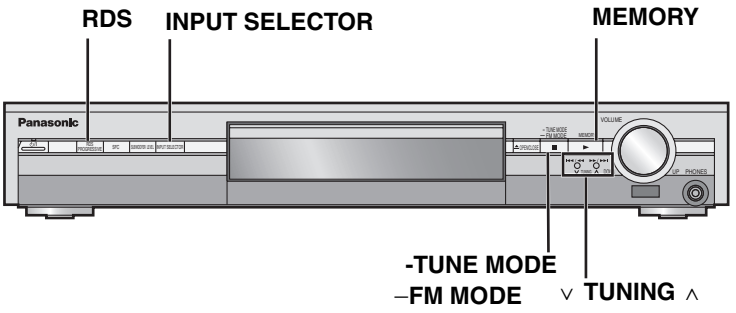

Automatic presetting

Up to 15 stations can each be set in the FM and AM bands.
Main unit only

1 Press [INPUT SELECTOR] to select “FM” or “AM”.

2 Press [-TUNE MODE] to select “MANUAL”.

Each time you press the button: MANUAL⟷PRESET

3 Press [∨ TUNING] or [TUNING ∧] to tune to the lowest frequency (FM: 87.50, AM: 522).

Southeast Asia, the Middle East, South Africa, Saudi Arabia and Kuwait : (AM: 522 or 520)

4 Press and hold [MEMORY].

Release the button when “FM AUTO” or “AM AUTO” is displayed.

The tuner presets all the stations it can receive into the channels in ascending order.

- “SET OK” is displayed when the stations are set. The last station to be set is then played.
- “ERROR” is displayed when automatic presetting is unsuccessful. Preset the channels manually (➜ page 27).

Selecting the preset channels

1 Press [TUNER/BAND] to select “FM” or “AM”.

2 Press the numbered buttons to select the channel.

Alternatively, press [∨CH] or [∧CH].

To select a 2-digit number

e.g. 12: [≧10] ➜ [1] ➜ [2]

When a stereo FM broadcast is being received.

■ If noise is excessive in FM

Main unit only

Press and hold [–FM MODE] to display “MONO”.

Press and hold [–FM MODE] again to cancel the mode.
The mode is also canceled when you change the frequency.

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Manual tuning

Main unit only

1 Press [INPUT SELECTOR] to select “FM” or “AM”.

2 Press [-TUNE MODE] to select “MANUAL”.

3 Press [∨ TUNING] or [TUNING ∧] to select the frequency.

Press and hold [∨ TUNING] or [TUNING ∧] until the frequency starts scrolling to start automatic tuning. Tuning stops when a station is found.

Presetting the channel one by one

1 Tune to the station (➜ above).

2 Press [ENTER].

3 While “PGM” is flashing on the display

Press the numbered buttons to select a channel.

Alternatively, press [∨ CH] or [∧ CH], then press [ENTER].

The station occupying a channel is erased if another station is preset to that channel.

■ AM frequency step

Main unit only

Southeast Asia, the Middle East, South Africa, Saudi Arabia and Kuwait

The step is factory-set to 9 kHz, but you can change it to receive broadcasts allocated in 10-kHz steps.

1 Press [INPUT SELECTOR] on the main unit to select “FM”.
2 Press and hold [INPUT SELECTOR].
After a few seconds, the display changes to show the current minimum frequency. Continue to hold the button down. The minimum frequency changes and the step is changed.

To return to the original step, repeat the above steps.

Note

Any FM/AM frequencies preset in channels will be changed by this procedure. Preset them again.

RDS broadcasting

The United Kingdom, Continental Europe and Russia

Main unit only

The unit can display the text data transmitted by the radio data system (RDS) available in some areas.
If the station you are listening to is transmitting RDS signals, “RDS” will light up on the display.

Press [RDS] to display the text data.

Each time you press the button:
PS → PTY → Frequency display

PTY displays			
NEWS	VARIED	FINANCE	COUNTRY
AFFAIRS	POP M	CHILDREN	NATIONAL
INFO	ROCK M	SOCIAL A	OLDIES
SPORT	M.O.R. M※	RELIGION	FOLK M
EDUCATE	LIGHT M	PHONE IN	DOCUMENT
DRAMA	CLASSICS	TRAVEL	TEST
CULTURE	OTHER M	LEISURE	ALARM
SCIENCE	WEATHER	JAZZ	

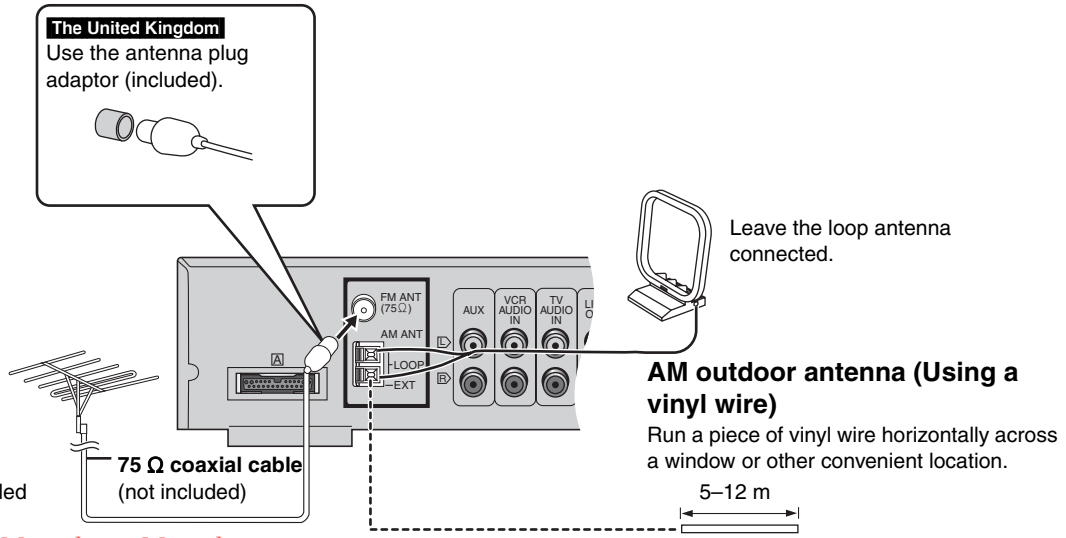
※“M.O.R. M”=Middle of the road music

Note

RDS displays may not be available if reception is poor.

Optional antenna connections

Use outdoor antennas if radio reception is poor.
- Disconnect the antenna when the unit is not in use.
- Do not use the outdoor antenna during an electrical storm.



FM outdoor antenna (Using a television antenna)

- Disconnect the FM indoor antenna.
- The antenna should be installed by a competent technician.

AM outdoor antenna (Using a vinyl wire)

Run a piece of vinyl wire horizontally across a window or other convenient location.

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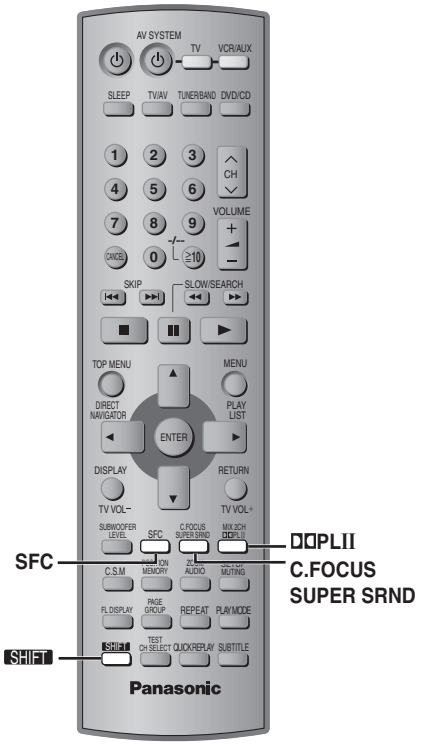

SFC — **Sound Field Control**
Changes the sound quality.

C.FOCUS SUPER SRND — **Super Surround**
Adds surround effects to stereo sound.

SHIFT + C.FOCUS SUPER SRND — **Center Focus**
For clearer dialogues.

MIX 2CH DDPL II — **Dolby Pro Logic II**
Changes stereo sound to surround sound.

Note
- When connected with headphones, the following sound field systems cannot be used. (Excluding Sound Field Control)
- You may experience a reduction in sound quality when these sound field systems are used with some sources. If this occurs, turn the sound field system off.

See below for details.

Sound Field Control

Press [SFC].

Each time you press the button:
HEAVY: Adds punch to rock.
CLEAR: Clarifies higher sounds.
SOFT: For background music.
DISCO: Reverberates sound to make you feel like you are in a disco.
LIVE: Makes vocals more alive.
HALL: Expands sound to make you feel like you are in a hall.
FLAT: Cancel (no effect is added) (factory preset).

To check the current setting
Press [SFC].

Super Surround

Press [SUPER SRND].

Each time you press the button:
MUSIC: Adds surround effects to stereo sources.
MOVIE: Use this mode when playing movie software.
PARTY: Sound is in stereo regardless of the direction you are facing.
(off): Cancel

- You can adjust the volume of the surround speakers to get the best surround effect (➜ page 29, Speaker level adjustments).
- Super Surround does not work when playing a DVD recorded with Dolby Digital or DTS.
- When Super Surround is on, Dolby Pro Logic II (➜ right) turns off.

Center Focus

(Discs where the dialogue is recorded in the center channel)
You can make the sound of the center speaker seem like it is coming from within the television.

Press [SHIFT]+[C.FOCUS].

CENTER FOCUS ON ⟷ CENTER FOCUS OFF

- This does not work when Super Surround is turned on.
- This will also work when Dolby Pro Logic II is turned on.

Dolby Pro Logic II

Dolby Pro Logic II is an advanced decoder that derives 5-channel surround (Left and Right Front, Center, Left and Right Surround) from any stereo program material, whether or not it has been specifically Dolby Surround encoded.

Press [DDPLII].

Each time you press the button:
MOVIE: Movie software, recorded in Dolby Surround.
MUSIC: Stereo sources
OFF: Cancel

- This works only in DVD/CD mode.
- "DDPLII" lights when there is effect.

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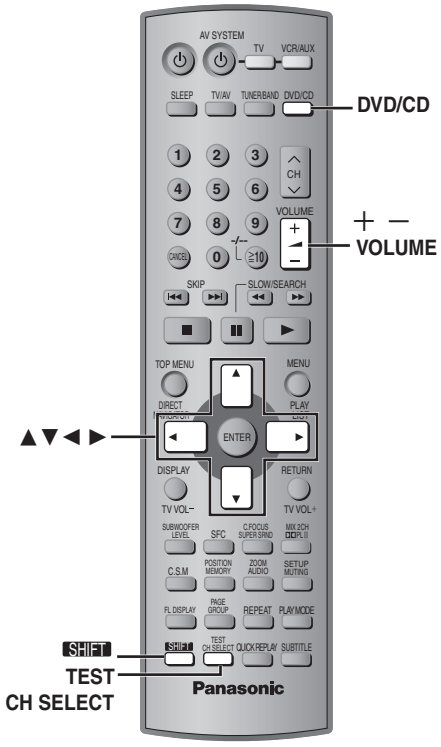

SHIFT + TEST CH SELECT Speaker level adjustments

See below for details.

Speaker level adjustments

This is one of the ways to get appropriate surround effects. Adjust the speaker level to the same level as the front speakers.

Preparation

Press [DVD/CD].

1 **While stopped**

Press [SHIFT]+[TEST] to output a test signal.

L: Front left
C: Center
R: Front right
RS: Right surround
LS: Left surround

2 **Press [VOLUME, +] or [−] to set the volume level normally used for listening.**

3 **Press [▲] (increase) or [▼] (decrease) to adjust the speaker level for each speaker.**

C, RS, LS: −6 dB to +6 dB
(L, R: Only the balance is adjustable.)

- **To adjust the balance of the front speakers**
  While outputting the test signal, press [◀ ▶].

To stop the test signal

Press [SHIFT]+[TEST] again.

Note

There is no output from SW (subwoofer) channel.

■ To adjust speaker level during play

(Effective when playing multi-channel audio or Dolby Pro Logic II is on.)

1 **Press [CH SELECT] to select the speaker.**

L →C →R →RS →LS →SW
↑_____↓

SW: Subwoofer

- You can adjust SW only if the disc includes a subwoofer channel.
- SW does not appear on the display and is not adjustable when Dolby Pro Logic II is turned on.
- S appears instead of RS and LS on the display when “MUSIC” or “MOVIE” is selected with Super Surround (➜ page 28). In this case, you can adjust both surround speaker levels at the same time.
  S: −6 dB to +6 dB

2 **Press [▲] (increase) or [▼] (decrease) to adjust the speaker level for each speaker.**

C, RS, LS, SW: −6 dB to +6 dB
(L, R: Only the balance is adjustable.)

- **To adjust the balance of the front speakers**
  During play, press [◀ ▶].

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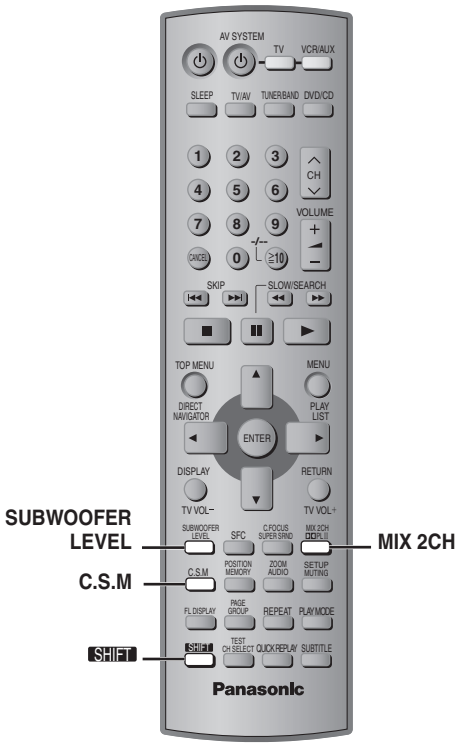

SHIFT + MIX 2CH DOLBY PL II

Down-mixing

Down-mixes multi-channel signals to 2 channels.

SUBWOOFER LEVEL

Subwoofer level

Adjusts the amount of bass.

C.S.M

Custom Sound Memory

Stores up to 30 sound settings (one setting per disc).

See below for details.

Down-mixing

You can output the down-mixed 2 channel signals when necessary (e.g. when you intend to record 5.1 ch sound on other recording equipment).

Press [SHIFT]+[MIX 2CH].

MIX 2CH ON ⟷ MIX 2CH OFF

Note

When “D.MIX” flashes on the display, the disc contains multiple-channel signals that cannot be down-mixed. DVD-A

Subwoofer level

Press [SUBWOOFER LEVEL].

SUB W 1→SUB W 2→SUB W 3→SUB W 4 (factory preset)

Custom Sound Memory

DVD-A DVD-V VCD CD

Available sound setting:

Subwoofer level, Center Focus, Sound Field Control, Super Surround

After making the sound field or sound quality settings

Press and hold [C.S.M].

■ Recall the settings

The unit recalls the settings when you play the disc again.

- The settings are replaced if you change them.
- When you store settings for the 31st disc, the settings for the earliest disc are cleared.
- Press [C.S.M] while “CSM” is displayed to cancel the sound setting for the disc.
- Press [C.S.M] while “CSM” is out to recall the sound setting for the disc.

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SLEEP

Sleep timer
Turns the unit off after a set time.

SETUP MUTING

Muting

See below for details.

Sleep timer

Press [SLEEP] to select the time (in minutes).

SLEEP 30 → SLEEP 60 → SLEEP 90 → OFF ← SLEEP 120 ←

To cancel the timer
Press [SLEEP] to select “OFF”.

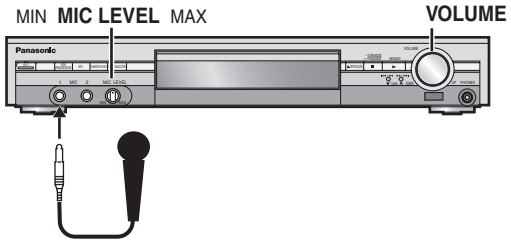
To confirm the remaining time
Press [SLEEP] again.

To change the setting
Repeat the procedure from the beginning.

Enjoying Karaoke

Southeast Asia, the Middle East, South Africa, Saudi Arabia, Kuwait, Australia, N.Z. and Russia

1 Turn [MIC LEVEL] to “MIN” and connect the microphone(s) (not included).
Microphone plug type: 6.3 mm monaural



2 Insert the disc and start play (➜ page 16).

3 After music starts
Adjust the main volume with [VOLUME].

4 Adjust the microphone volume.

To turn the vocals on and off

DVD-V

1 Press [AUDIO] during play.

2 Press [◄ ►] to select the mode.

Solo discs
Off: Vocals off
On: Vocals on

Duet discs
Off: Vocals off
V1+V2: Both parts
V1: Part 1 only
V2: Part 2 only

VCD

Press [AUDIO] during play.
Each time you press the button:
LR → L → R

LR: Vocals and accompaniment
L: Accompaniment only
R: Vocals only
Select “L” for karaoke. (R and L may be reversed on some discs.)

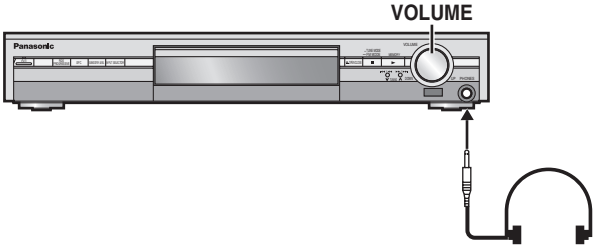
Muting

Press [MUTING].
“MUTING” flashes on the unit’s display.

To cancel
- Press [MUTING] again or reduce the volume to minimum (–– dB), then raise it to the required level.
- Muting is canceled when you switch the unit to standby.

Using headphones

1 Reduce the volume and connect the headphones (not included).
Headphone plug type: 3.5 mm stereo



2 Adjust headphone volume with [VOLUME].
- Audio is automatically switched to stereo (2-channel).

Note
Avoid listening for prolonged periods of time to prevent hearing damage.

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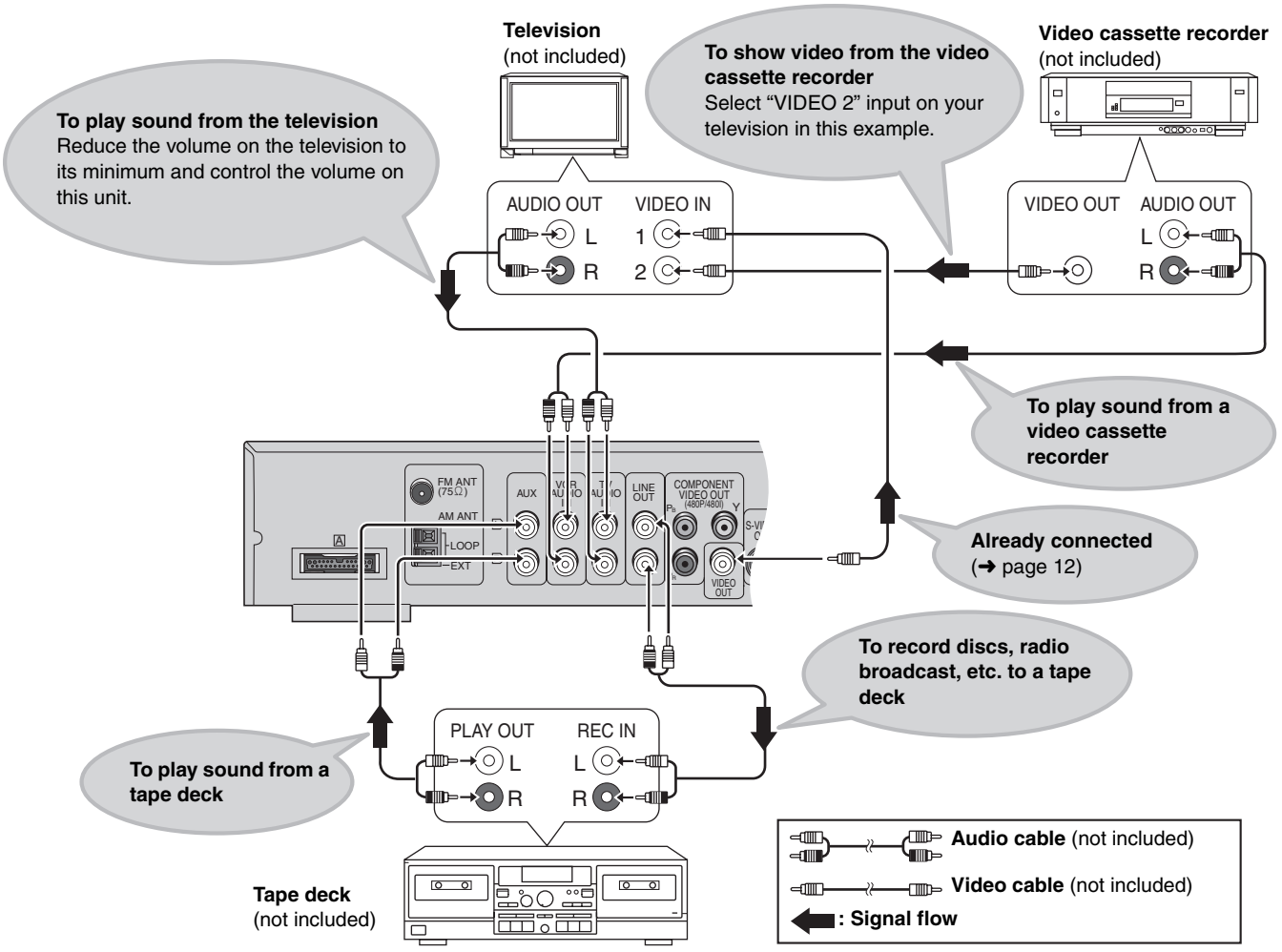
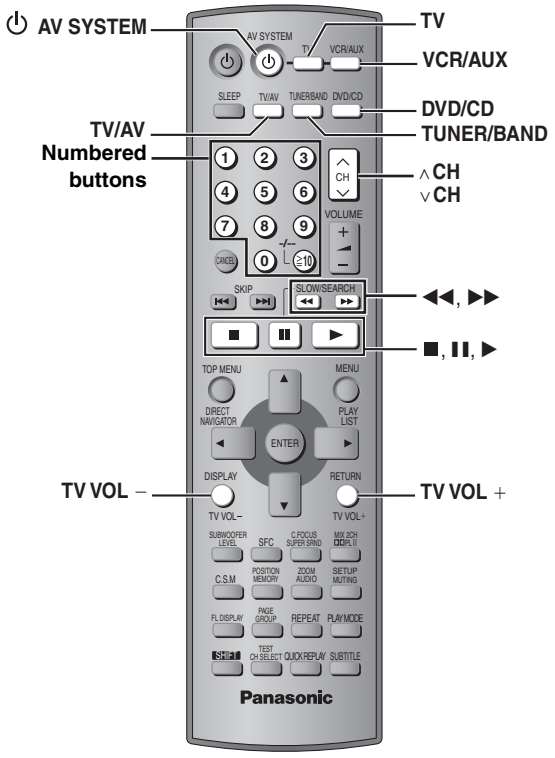
■ Connection example





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Operating the television and the video cassette recorder

You can use the remote control to operate a Panasonic television or a video cassette recorder. Connect your equipment referring to "Connection example" (➜ page 32).

Note

The remote control may not work properly with some models.

Television

Preparation

- Aim the remote control at the unit and press [TV] to light up the button.
- Aim the remote control at the television for the following operations.

Turning the television on/off

Press [⏻ AV SYSTEM].

Switching the television's video input mode

Press [TV/AV].

Changing channels

Press [∨ CH] or [∧ CH].

Adjusting the volume

Press [TV VOL−] or [TV VOL+].

Changing the remote control code

HT878 **HT870**

This remote control can also operate some other brands of televisions, video cassette recorders. Change the code to operate such equipment (➜ below).

Aim the remote control at the equipment.

While pressing [TV] or [VCR/AUX]

Press a numbered button to enter the first digit, and then the second digit.

The remote control outputs the on/off signal. If the code is correct, the equipment turns on or off. If it doesn't, try entering another code.

Note

Reenter the codes after you change the batteries.

Video cassette recorder

Preparation

- Change the video input mode on the television ("VIDEO 2" in the example).
- Aim the remote control at the unit and press [VCR/AUX] to light up the button.
- Aim the remote control at the video cassette recorder for the following operations.

Turning the video cassette recorder on/off

Press [⏻ AV SYSTEM].

Play, pause and stop

Press [▶] (play), [❚❚] or [■].

Fast forward and rewind

Press [◀◀] or [▶▶].

Connecting a laser disc or record player

Connect instead of a video cassette recorder (➜ page 32) and select "VCR" as the source.

We recommend using a record player with a built-in phono equalizer. If your player doesn't have a built-in equalizer, connect it first to a separate equalizer and then to the unit.

Operating the tape deck

Listening to the tape deck

Press [VCR/AUX] several times to select "AUX" as the source.

Recording to the tape deck

1 **Press [DVD/CD] to select "DVD/CD".**
or
Press [TUNER/BAND] to select "FM" or "AM".

2 **Start recording and play.**

HT878 **HT870**

Television code list

PANASONIC:	01, 29, 30, 31
AKAI:	07, 11, 28, 36, 37
ALBA:	05, 11, 12
BAUR:	32
BLAUPUNKT:	28, 36
BRANDT:	26, 41
BUSH:	02, 05, 10, 11, 12, 32, 38
DAEWOO:	11, 12, 32
DUAL:	32
FERGUSON:	11, 12
FINLUX:	11, 12, 22, 23, 24, 25, 40
FISHER:	37
FUNAI:	02, 38
GOLDSTAR:	11, 12
GOODMANS:	11, 12, 25, 32
GRUNDIG:	28, 36
HITACHI:	01, 09, 26, 41
ICE:	21, 39
INNO HIT:	34
ITT/NOKIA:	05, 07, 37
JVC:	18
KENDO:	40
LOEWE:	14, 33
LOEWE OPTA:	32
LUXOR:	37
MATSUI:	02, 05, 06, 07, 10, 11, 12, 25, 37, 38
MITSUBISHI:	14, 19, 28, 36
NOKIA:	05, 07, 37
NORDMENDE:	26, 41
OCEANIC:	27, 35
ORION:	02, 03, 05, 10, 11, 12, 38
PHILIPS:	11, 12, 13, 15
PHONOLA	11, 12
RADIOLA:	11, 12
ROADSTAR:	39
SABA:	26, 41
SALORA:	07, 37
SAMSUNG:	11, 12, 15, 21, 25, 34, 39
SANYO:	07, 17, 25, 37
SCHNEIDER:	11, 12
SEG:	39, 40
SELECO:	11, 24
SHARP:	17, 20
SIEMENS:	11, 12, 17, 28, 36
SINUDYNE:	02, 05, 11, 12, 22, 24, 38, 40
SONY:	16
THOMSON:	05, 26, 41
THORN:	06, 08, 11, 12, 14, 16, 25, 32
TOSHIBA:	03, 04, 06, 08
UNIVERSUM:	39
WHITE WESTING HOUSE:	11, 12, 22, 40

Video cassette recorder code list

PANASONIC:	01, 29, 30
AKAI:	06, 08, 16, 17, 19, 37
ALBA:	02, 06, 23
BAIRD:	08, 10, 37
BLAUPUNKT:	01, 26, 29, 30, 33
BUSH:	02, 09, 23
DAEWOO:	15
FERGUSON:	31
FISHER:	05, 07, 10, 11, 12
GOLDSTAR/LG:	03, 04, 36, 37
GOODMANS:	02, 03, 18, 23, 27, 33
GRUNDIG:	02, 23, 26, 28, 32, 33
HCM:	02, 23
HITACHI:	13, 14
ITT:	08, 10, 11, 37
ITT/NOKIA:	18, 27, 37
JVC:	20, 21
KENDO:	08, 09, 37
LOEWE:	03, 32
LUXOR:	08, 10, 11, 17, 19, 37
MATSUI:	03, 05, 09
METZ:	01
MITSUBISHI:	17, 19, 21, 32
NEC:	04, 21, 36, 37
NOKIA:	08, 10, 11, 18, 22, 27, 37
NORDMENDE:	20, 21
OKANO:	06
ORION:	05, 09
PHILIPS:	22, 32, 33, 34, 35
PHONOLA:	32
RFT:	33
ROADSTAR:	02, 03, 18, 23, 27
SABA:	21
SALORA:	08, 11, 17, 19, 37
SAMSUNG:	15, 16, 18, 27
SANYO:	07, 10, 11
SCHAUB LORENZ:	10
SCHNEIDER:	02, 03, 18, 23, 27, 32
SEG:	02, 18, 23, 27
SHARP:	22
SIEMENS:	03, 10, 11, 32
SONY:	24, 25, 26
THOMSON:	21
THORN:	10
TOSHIBA:	15, 17, 19, 32
UNIVERSUM:	03, 08, 32, 37

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Placement

Set the unit up on an even surface away from direct sunlight, high temperatures, high humidity, and excessive vibration. These conditions can damage the cabinet and other components, thereby shortening the unit's service life.

Do not place heavy items on the unit.

Voltage

Do not use high voltage power sources. This can overload the unit and cause a fire.

Do not use a DC power source. Check the source carefully when setting the unit up on a ship or other places where DC is used.

AC mains lead protection

Ensure the AC mains lead is connected correctly and not damaged. Poor connection and lead damage can cause fire or electric shock. Do not pull, bend, or place heavy items on the lead.

Grasp the plug firmly when unplugging the lead. Pulling the AC mains lead can cause electric shock.

Do not handle the plug with wet hands. This can cause electric shock.

Foreign matter

Do not let metal objects fall inside the unit. This can cause electric shock or malfunction.

Do not let liquids get into the unit. This can cause electric shock or malfunction. If this occurs, immediately disconnect the unit from the power supply and contact your dealer.

Do not spray insecticides onto or into the unit. They contain flammable gases which can ignite if sprayed into the unit.

Service

Do not attempt to repair this unit by yourself. If sound is interrupted, indicators fail to light, smoke appears, or any other problem that is not covered in these instructions occurs, disconnect the AC mains lead and contact your dealer or an authorized service center. Electric shock or damage to the unit can occur if the unit is repaired, disassembled or reconstructed by unqualified persons.

Extend operating life by disconnecting the unit from the power source if it is not to be used for a long time.

Maintenance

Clean this unit with a soft, dry cloth.

- Never use alcohol, paint thinner or benzine to clean this unit.
- Before using chemically treated cloth, read the instructions that came with the cloth carefully.

Before moving the unit, ensure the disc tray is empty.
Failure to do so will risk severely damaging the disc and the unit.

Abkhazian:	6566	Lingala:	7678
Afar:	6565	Lithuanian:	7684
Afrikaans:	6570	Macedonian:	7775
Albanian:	8381	Malagasy:	7771
Ameharic:	6577	Malay:	7783
Arabic:	6582	Malayalam:	7776
Armenian:	7289	Maltese:	7784
Assamese:	6583	Maori:	7773
Aymara:	6588	Marathi:	7782
Azerbaijani:	6590	Moldavian:	7779
Bashkir:	6665	Mongolian:	7778
Basque:	6985	Nauru:	7865
Bengali; Bangla:	6678	Nepali:	7869
Bhutani:	6890	Norwegian:	7879
Bihari:	6672	Oriya:	7982
Breton:	6682	Pashto, Pushto:	8083
Bulgarian:	6671	Persian:	7065
Burmese:	7789	Polish:	8076
Byelorussian:	6669	Portuguese:	8084
Cambodian:	7577	Punjabi:	8065
Catalan:	6765	Quechua:	8185
Chinese:	9072	Rhaeto-Romance:	8277
Corsican:	6779	Romanian:	8279
Croatian:	7282	Russian:	8285
Czech:	6783	Samoan:	8377
Danish:	6865	Sanskrit:	8365
Dutch:	7876	Scots Gaelic:	7168
English:	6978	Serbian:	8382
Esperanto:	6979	Serbo-Croatian:	8372
Estonian:	6984	Shona:	8378
Faroese:	7079	Sindhi:	8368
Fiji:	7074	Singhalese:	8373
Finnish:	7073	Slovak:	8375
French:	7082	Slovenian:	8376
Frisian:	7089	Somali:	8379
Galician:	7176	Spanish:	6983
Georgian:	7565	Sundanese:	8385
German:	6869	Swahili:	8387
Greek:	6976	Swedish:	8386
Greenlandic:	7576	Tagalog:	8476
Guarani:	7178	Tajik:	8471
Gujarati:	7185	Tamil:	8465
Hausa:	7265	Tatar:	8484
Hebrew:	7387	Telugu:	8469
Hindi:	7273	Thai:	8472
Hungarian:	7285	Tibetan:	6679
Icelandic:	7383	Tigrinya:	8473
Indonesian:	7378	Tonga:	8479
Interlingua:	7365	Turkish:	8482
Irish:	7165	Turkmen:	8475
Italian:	7384	Twi:	8487
Japanese:	7465	Ukrainian:	8575
Javanese:	7487	Urdu:	8582
Kannada:	7578	Uzbek:	8590
Kashmiri:	7583	Vietnamese:	8673
Kazakh:	7575	Volapük:	8679
Kirghiz:	7589	Welsh:	6789
Korean:	7579	Wolof:	8779
Kurdish:	7585	Xhosa:	8872
Laotian:	7679	Yiddish:	7473
Latin:	7665	Yoruba:	8979
Latvian, Lettish:	7686	Zulu:	9085

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Decoder
A decoder restores the coded audio signals on DVDs to normal. This is called decoding.

Dolby Digital
This is a method of coding digital signals developed by Dolby Laboratories. Apart from stereo (2-channel) audio, these signals can also be multi-channel audio. A large amount of audio information can be recorded on one disc using this method.

DTS (Digital Theater Systems)
This surround system is used in many movie theaters around the world. There is good separation between the channels, so realistic sound effects are possible.

Dynamic range
Dynamic range is the difference between the lowest level of sound that can be heard above the noise of the equipment and the highest level of sound before distortion occurs.

Frame still and field still
Frames are the still pictures that go together to make a moving picture. There are about 30 frames shown each second.
One frame is made up of two fields. A regular television shows these fields one after the other to create frames.
A still is shown when you pause a moving picture. A frame still is made up of two alternating fields, so the picture may appear blurred, but overall quality is high.
A field still is not blurred, but it has only half the information of a frame still so picture quality is lower.

I/P/B
MPEG 2, the video compression standard adopted for use with DVD-Video, codes frames using these 3 picture types.
I: Intra coded picture
This picture has the best quality and is the best to use when adjusting the picture.
P: Predictive coded picture
This picture is calculated based on past I or P-pictures.
B: Bidirectionally-predictive coded picture
This picture is calculated by comparing past and future I and P-pictures so it has the lowest volume of information.

Linear PCM (pulse code modulation)
These are uncompressed digital signals, similar to those found on CDs.

Playback control (PBC)
If a Video CD has playback control, you can select scenes and information with menus.

Sampling frequency
Sampling is the process of converting the heights of sound wave (analog signal) samples taken at set periods into digits (digital encoding). Sampling frequency is the number of samples taken per second, so larger numbers mean more faithful reproduction of the original sound.

Windows Media, and the Windows logo are trademarks, or registered trademarks of Microsoft Corporation in the United States and/or other countries.

WMA is a compression format developed by Microsoft Corporation. It achieves the same sound quality as MP3 with a file size that is smaller than that of MP3.

Designed for Windows Media™

MPEG Layer-3 audio decoding technology licensed from Fraunhofer IIS and Thomson multimedia.

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“DTS” and “DTS Digital Surround” are registered trademarks of Digital Theater Systems, Inc.

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AMPLIFIER SECTION

HT878

RMS Output Power: Dolby Digital Mode

Front Ch	55 W per channel (6 Ω), 1 kHz, 10 % THD
Surround Ch	55 W per channel (6 Ω), 1 kHz, 10 % THD
Center Ch	160 W per channel (6 Ω), 1 kHz, 10 % THD
Subwoofer Ch	220 W per channel (4 Ω), 100 Hz, 10 % THD
Total RMS Dolby Digital mode power	600 W

Southeast Asia, the Middle East, South Africa, Saudi Arabia and Kuwait

PMPO output power 5000 W

DIN Output Power: Dolby Digital Mode

Front Ch	40 W per channel (6 Ω), 1 kHz, 1 % THD
Surround Ch	40 W per channel (6 Ω), 1 kHz, 1 % THD
Center Ch	120 W per channel (6 Ω), 1 kHz, 1 % THD
Subwoofer Ch	150 W per channel (4 Ω), 100 Hz, 1 % THD
Total DIN Dolby Digital mode power	430 W

HT870

RMS Output Power: Dolby Digital Mode

Front Ch	170 W per channel (6 Ω), 1 kHz, 10 % THD
Surround Ch	70 W per channel (4 Ω), 1 kHz, 10 % THD
Center Ch	260 W per channel (4 Ω), 1 kHz, 10 % THD
Subwoofer Ch	260 W per channel (4 Ω), 100 Hz, 10 % THD
Total RMS Dolby Digital mode power	1000 W

DIN Output Power: Dolby Digital Mode

Front Ch	140 W per channel (6 Ω), 1 kHz, 1 % THD
Surround Ch	55 W per channel (4 Ω), 1 kHz, 1 % THD
Center Ch	180 W per channel (4 Ω), 1 kHz, 1 % THD
Subwoofer Ch	180 W per channel (4 Ω), 100 Hz, 1 % THD
Total DIN Dolby Digital mode power	750 W

HT520

RMS Output Power: Dolby Digital Mode

Front Ch	60 W per channel (4 Ω), 1 kHz, 10 % THD
Surround Ch	60 W per channel (4 Ω), 1 kHz, 10 % THD
Center Ch	60 W per channel (4 Ω), 1 kHz, 10 % THD
Subwoofer Ch	200 W per channel (4 Ω), 100 Hz, 10 % THD
Total RMS Dolby Digital mode power	500 W

Southeast Asia, the Middle East, South Africa, Saudi Arabia and Kuwait

PMPO output power 5000 W

DIN Output Power: Dolby Digital Mode

Front Ch	45 W per channel (4 Ω), 1 kHz, 1 % THD
Surround Ch	40 W per channel (4 Ω), 1 kHz, 1 % THD
Center Ch	40 W per channel (4 Ω), 1 kHz, 1 % THD
Subwoofer Ch	140 W per channel (4 Ω), 100 Hz, 1 % THD
Total DIN Dolby Digital mode power	350 W

FM/AM TUNER, TERMINALS SECTION

Preset station FM 15 stations
AM/MW 15 stations

Frequency Modulation (FM)

Frequency Range	87.50–108.00 MHz (50-kHz step)
Sensitivity	
The United Kingdom, Continental Europe and Russia	1.5 µV (IHF)
Others	2.5 µV (IHF)
S/N 26 dB	
The United Kingdom, Continental Europe and Russia	1.2 µV
Others	2.2 µV
Antenna terminals	75 Ω (unbalance)

Amplitude Modulation (AM/MW)

Frequency range	
The United Kingdom, Continental Europe, Russia, Australia and N.Z. :	522–1629 kHz (9-kHz step)
Others	522–1629 kHz (9-kHz step) 520–1630 kHz (10-kHz step)
AM Sensitivity S/N 20 dB at 999 kHz	560 µV/m

Phone jack

Terminal	Stereo, 3.5 mm jack

Southeast Asia, the Middle East, South Africa, Saudi Arabia, Kuwait, Russia, Australia and N.Z.

Mic jack

Sensitivity	0.7 mV, 1.2 kΩ
Terminal	Mono, 6.3 mm jack (2 systems)

DISC SECTION

Discs played [8 cm or 12 cm]

(1) DVD-RAM (DVD-VR compatible, JPEG formatted disc)
(2) DVD-Audio
(3) DVD-Video
(4) DVD-R (DVD-Video compatible)
(5) CD-Audio (CD-DA)
(6) Video CD
(7) SVCD (Conforming to IEC62107)
(8) CD-R/RW (CD-DA, Video-CD, SVCD, MP3, WMA, JPEG formatted disc)
(9) MP3/WMA※1
- Compatible compression rate:
  MP3: between 32 kbps and 320 kbps
  WMA: between 48 kbps and 320 kbps

(10) JPEG※1
- Exif Ver 2.1 JPEG Baseline files
- Picture resolution: between 320×240 and 6144×4096 pixels (sub sampling is 4:2:2 or 4:2:0)

(11) HighMAT Level 2 (Audio and Image)

※1The total combined maximum number of recognizable audio and picture contents and groups: 4000 audio and picture contents and 400 groups.

Pick up

Wavelength (DVD/CD)	662 nm/785 nm
Laser power	CLASS 2/CLASS 3A
NORSK	
Bølgelengde (DVD/CD)	662 nm/785 nm
Laserstyrke	Ingen farlig stråling sendes ut

Audio output (Disc)

Number of channels	5.1ch (FL, FR, C, SL, SR, SW)

Audio performance (measured at LINE OUT terminal)

(1) Frequency response	
●DVD (linear audio)	4 Hz–22 kHz (48 kHz sampling) 4 Hz–44 kHz (96 kHz sampling)
●DVD-Audio	4 Hz–88 kHz (192 kHz sampling)
●CD-Audio	4 Hz–20 kHz
(2) S/N ratio	
●CD-Audio	95 dB
(3) Dynamic range	
●DVD (linear audio)	95 dB
●CD-Audio	93 dB
(4) Total harmonic distortion	
●CD-Audio	0.005 %

VIDEO SECTION

Video system

Signal system	PAL625/50, PAL525/60, NTSC

Composite video output

Output level	1 Vp-p (75 Ω)
Terminal	Pin jack (1 system)
The United Kingdom, Continental Europe and Russia :	Scart jack (1 system)

S-video output

Y output level	1 Vp-p (75 Ω)
C output level	PAL; 0.3 Vp-p (75 Ω) NTSC; 0.286 Vp-p (75 Ω)
Terminal	S terminal (1 system)
The United Kingdom, Continental Europe and Russia :	Scart jack (1 system)

Component Video output (480P/480I)

Y output level	1 Vp-p (75 Ω)
P_B output level	0.7 Vp-p (75 Ω)
P_R output level	0.7 Vp-p (75 Ω)
Terminal	Pin jack (Y: green, P_B: blue, P_R: red) (1 system)

The United Kingdom, Continental Europe and Russia

RGB video output

R output level	0.7 Vp-p (75 Ω)
G output level	0.7 Vp-p (75 Ω)
B output level	0.7 Vp-p (75 Ω)
Terminal	Scart jack (1 system)

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SPEAKER SECTION

HT878 **Front/Surround speakers SB-FS878**

Type	2 way, 2 speaker system (Bass reflex)
Speaker unit(s)	Impedance 6 Ω
Full range	6.5 cm Cone type
Tweeter	Piezo type
Input power (IEC)	55 W (Max)
Output sound pressure	79 dB/W (1.0 m)
Cross over frequency	10 kHz
Frequency range	85 Hz–25 kHz (−16 dB)
	90 Hz–22 kHz (−10 dB)
Dimensions (W×H×D)	250×1062×250 mm
Mass	4.1 kg

HT878 **Center speaker SB-PC878**

Type	3 way, 5 speaker system (Bass reflex)
Speaker unit(s)	Impedance 6 Ω
Woofer	5 cm Cone type
Woofer	5 cm Cone type
Woofer	5 cm Cone type
Woofer	5 cm Cone type
Tweeter	2.5 cm Semi-dome type
Input power (IEC)	160 W※ (Max)
Output sound pressure	82 dB/W (1.0 m)
Cross over frequency	3.5 kHz, 5 kHz
Frequency range	130 Hz–50 kHz (−16 dB)
	150 Hz–45 kHz (−10 dB)
Dimensions (W×H×D)	430×64×100 mm
Mass	1.8 kg

HT878 **Active subwoofer SB-WA878**

Type	1 way, 1 speaker system (Bass reflex)
Speaker unit(s)	Impedance 4 Ω
Woofer	17 cm Cone type
Output sound pressure	80 dB/W (1.0 m)
Frequency range	32 Hz–220 Hz (−16 dB)
	36 Hz–190 Hz (−10 dB)
Dimensions (W×H×D)	209×361×463 mm
Mass	
Russia, Australia and N.Z.	11.5 kg
Southeast Asia, the Middle East, South Africa, Saudi Arabia and Kuwait	11 kg

HT870 **Front speakers SB-PF921**

Type	2 way, 3 speaker system (Bass reflex)
Speaker unit(s)	Impedance 6 Ω
Woofer	6.5 cm Cone type
Woofer	6.5 cm Cone type
Tweeter	6 cm Ring-shaped dome type
Input power (IEC)	170 W※ (Max)
Output sound pressure	83 dB/W (1.0 m)
Cross over frequency	7 kHz
Frequency range	92 Hz–50 kHz (−16 dB)
	110 Hz–45 kHz (−10 dB)
Dimensions (W×H×D)	250×1160 (Max)/704 (Min)×247 mm
Speaker height adjustment range	1160–575 mm
	[However, the height of the stand is fixed at 704 mm]
Mass	4 kg

HT870 **Surround speakers SB-PS921**

Type	2 way, 2 speaker system (Bass reflex)
Speaker unit(s)	Impedance 4 Ω
Woofer	6.5 cm Cone type
Tweeter	6 cm Cone type
Input power (IEC)	70 W (Max)
Output sound pressure	81 dB/W (1.0 m)
Cross over frequency	5 kHz
Frequency range	89 Hz–41 kHz (−16 dB)
	100 Hz–40 kHz (−10 dB)
Dimensions (W×H×D)	250×1160 (Max)/704 (Min)×247 mm
Speaker height adjustment range	1160–575 mm
	[However, the height of the stand is fixed at 704 mm]
Mass	3.6 kg

HT870 **Center speaker SB-PC920**

Type	2 way, 3 speaker system (Bass reflex)
Speaker unit(s)	Impedance 4 Ω
Woofer	6.5 cm Cone type
Woofer	6.5 cm Cone type
Tweeter	6 cm Ring-shaped dome type
Input power (IEC)	270 W※ (Max)
Output sound pressure	82 dB/W (1.0 m)
Cross over frequency	5 kHz
Frequency range	110 Hz–50 kHz (−16 dB)
	140 Hz–45 kHz (−10 dB)
Dimensions (W×H×D)	320×97×93 mm
Mass	1.5 kg

HT870 **Active subwoofer SB-WA870**

Type	1 way, 1 speaker system (Bass reflex)
Speaker unit(s)	Impedance 4 Ω
Woofer	20 cm Cone type
Output sound pressure	84 dB/W (1.0 m)
Frequency range	34 Hz–220 Hz (−16 dB)
	38 Hz–190 Hz (−10 dB)
Dimensions (W×H×D)	248×417×476.6 mm
Mass	16.4 kg

HT520 **Front/Surround speakers SB-FS520**

Type	1 way, 1 speaker system (Bass reflex)
Speaker unit(s)	Impedance 4 Ω
Full range	6.5 cm Cone type
Input power (IEC)	70 W (Max)
Output sound pressure	80 dB/W (1.0 m)
Frequency range	88 Hz–25 kHz (−16 dB)
	100 Hz–22 kHz (−10 dB)
Dimensions (W×H×D)	86×180×112 mm
Mass	0.73 kg

HT520 **Center speaker SB-PC520**

Type	1 way, 1 speaker system (Bass reflex)
Speaker unit(s)	Impedance 4 Ω
Full range	6.5 cm Cone type
Input power (IEC)	60 W (Max)
Output sound pressure	80 dB/W (1.0 m)
Frequency range	84 Hz–25 kHz (−16 dB)
	96 Hz–22 kHz (−10 dB)
Dimensions (W×H×D)	181×102×112 mm
Mass	0.77 kg

HT520 **Active subwoofer SB-WA520**

Type	1 way, 1 speaker system (Bass reflex)
Speaker unit(s)	Impedance 4 Ω
Woofer	17 cm Cone type
Output sound pressure	80 dB/W (1.0 m)
Frequency range	32 Hz–220 Hz (−16 dB)
	36 Hz–190 Hz (−10 dB)
Dimensions (W×H×D)	209×361×463 mm
Mass	11 kg

GENERAL

Power supply		
Continental Europe and Russia		AC 230 V, 50 Hz
The United Kingdom, Australia and N.Z.		AC 230–240 V, 50 Hz
Others		AC 110/127/220–230/240 V, 50/60 Hz
Power consumption	Main unit	25 W
	HT878 Subwoofer	250 W
	HT870 Subwoofer	390 W
	HT520 Subwoofer	220 W
Dimensions (W×H×D)		430×68×359.2 mm
Mass	Main unit	3.2 kg
Operating temperature range		+5 to +35 °C
Operating humidity range		5 to 90 % RH (no condensation)

Power consumption in standby mode

The United Kingdom, Continental Europe, Russia, Australia and N.Z.	0.7 W
Others	0.9 W

※Rating with low cut filter equipped amplifier

Note

1. Specifications are subject to change without notice. Mass and dimensions are approximate.
2. Total harmonic distortion is measured by the digital spectrum analyzer.

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Troubleshooting guide

Before requesting service, make the following checks. If you are in doubt about some of the check points, or if the remedies indicated in the chart do not solve the problem, consult your dealer for instructions.

Power

		Page
No power.	●Insert the AC mains lead and system cable securely.	**13**
The unit is automatically switched to the standby mode.	●The Sleep timer activated.	**31**

Unresponsive or inoperable function

No response when any button is pressed.	●This unit cannot play discs other than the ones listed in these operating instructions. ●The unit may not be operating properly due to lightning, static electricity or some other external factor. Turn the unit off and then back to ON. Alternatively, turn the unit off, disconnect the AC mains lead, and then reconnect it. ●Condensation has formed: Wait 1 to 2 hours for it to evaporate.	**15** **—** **—**
No response when remote control buttons are pressed.	●Check that the batteries are installed correctly. ●The batteries are depleted. Replace them with new ones. ●Aim the remote control at the remote control sensor and operate.	**13** **13** **14**
No picture or sound.	●Check the video or audio connection. ●Check the power or input setting of the connected equipment. ●Check that the DVD-RAM has something recorded on it.	**10–12, 32** **—** **—**
You have forgotten your ratings password. Reset all the settings to Factory Preset.	●While stopped and “DVD/CD” is the source, press and hold [■] on the main unit and [≧10] on the remote control until “Initialized” disappears from the television. Turn the unit off and on again. All settings will return to the default values.	**—**

Specific operation undesirable or unexpected

It takes time before play starts. MP3	●Play may take time to begin when an MP3 track has still picture data. Even after the track starts, the correct play time will not be displayed, however this is normal.	**—**
Folders deeper than the eighth layer on a data CD are not displayed correctly. WMA MP3 JPEG	●Folders deeper than the eighth layer are displayed as the eighth layer.	**—**
A menu screen appears during skip or search. VCD	●This is normal for Video CDs.	**—**
Programmed items are not played. DVD-V	●Some items cannot be played even if you have programmed them.	**—**
The on-screen menu shows “2” as a soundtrack option when [AUDIO] is pressed, but the audio does not change. DVD-A	●Even if a second soundtrack isn’t recorded, two numbers will normally be shown.	**—**
Play restarts from the beginning of the track when soundtrack is changed. DVD-A	●This is normal for DVD-Audio.	**—**

Subtitle

Subtitle position is wrong.	●Adjust the position. (“Subtitle Position” in Display Menu)	**23**
No subtitles.	●Display the subtitles.	**18**

Marker

Cannot add markers.	●You cannot add markers with DVD-RAM. ●If the disc’s elapsed play time doesn’t appear on the unit’s display, you cannot add markers.	**—** **—**

A-B repeat

Point B is automatically set.	●The end of an item becomes point B when it is reached.	**—**
A-B repeat is automatically canceled.	●A-B repeat is canceled when you press [QUICK REPLAY].	**—**

Sound abnormal or improper

Sound distorted.	●Noise may occur when playing WMA files.	**—**
Effects do not work.	●Some audio effects do not work or have less effect with some discs. ●Multi Re-master and Dolby Pro Logic II do not work if you have changed the play speed.	**—** **—**
Humming heard during play.	●An AC mains lead or fluorescent light is near the subwoofer. Keep other appliances and cables away from the subwoofer.	**—**
Sound mixed.	●If you are using the scart terminal (AV) and the audio input terminals (TV AUDIO IN) at the same time, turn off the connected equipment at one or the other terminals.	**—**

Menus

The Setup menu cannot be accessed.	●Select “DVD/CD” as the source. ●Cancel all group, program and random play.	**—** **19**

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Picture abnormal or un-viewable

		Page
Picture distorted.	●Ensure that the unit is connected directly to the television, and is not connected through a video cassette recorder.	**12**
Picture size doesn't fit the screen.	●Change "TV Aspect" in "Video" tab. ●Use the television to change the aspect. If your television does not have that function, change "4:3 Aspect" in Display Menu. ●Change the Zoom setting.	**24** **23** **18**
The television may display incorrectly or colors appear faded.	●The unit and television are using different video systems. Southeast Asia Use a multi-system or NTSC television. Others Use a multi-system or PAL television. ●The system used on the disc does not match your television. – PAL discs cannot be correctly viewed on an NTSC television. – This unit can convert NTSC signals to PAL 60 for viewing on a PAL television ("NTSC Disc Output" in "Video" tab).	**—** **—** **24**
Menu not displayed correctly.	●Restore the zoom ratio to ×1.00. ●Set "Subtitle Position" in Display Menu to "0". ●Set "4:3 Aspect" in Display Menu to "Normal".	**18** **23** **23**
Auto zoom function does not work well.	●Turn off TV's zoom function. ●Use the other preset aspect ratios or manual adjustment. ●Zoom function may not work well, especially in dark scenes and may not work depending on the type of disc.	**—** **18** **—**
The picture on the television disappears or stripes appear on the screen.	●Mobile telephone chargers can cause some disturbance. ●If you are using a TV indoor antenna, change to an outdoor antenna. ●The television antenna wire is too close to the unit. Separate the antenna wire of the television from the unit.	**—** **27** **—**

Progressive video

There is ghosting when progressive output is on.	●Change "Video Output Mode" in Picture Menu to "480I". This problem is caused by the editing method or material used on DVD-Video, but should be corrected if you use interlace output.	**23**
Pictures not in progressive output.	●When playing NTSC discs, press [PROGRESSIVE] on the main unit so "PROG." is displayed. Or select "480P" in "Video Output Mode" in Picture Menu. ●If the unit is connected to the television through VIDEO OUT, S-VIDEO and SCART, output will be interlace.	**17, 23** **12**

Listening to the radio

Noise is heard. **"ST" flickers or doesn't light.** **Sound is distorted.**	●Adjust the position of the FM or AM antenna. ●Use an outdoor antenna.	**—** **27**
A beat sound is heard.	●Turn the television off or move it away from the unit.	**—**
A low hum is heard during AM broadcasts.	●Separate the antenna from other cables.	**—**

Television operation

Cannot operate the TV.	●Press [TV] first to operate the television. HT878 HT870 ●Check the remote control code for the TV manufacturer.	**—** **33**

Unit displays

The display is dark.	●Select "Bright" in "FL Dimmer" in "Others" tab.	**25**
"NO PLAY"	●You inserted a disc which the unit cannot play; insert one it can. ●You inserted a blank disc.	**15** **—**
"NO DISC"	●You haven't inserted a disc; insert one. ●You haven't inserted the disc correctly; insert it correctly.	**—** **16**
"F61"	●Check and correct the speaker cord connections. If this does not fix the problem, there is a power supply problem. Consult the dealer.	**5, 6, 10,11**
"DVD U11"	●Disc is dirty. Wipe it clean.	**15**
"ERROR"	●Incorrect operation performed. Read the instructions and try again.	**—**
"DVD H□□" □□ stands for a number.	●Trouble may have occurred. The number following "H" depends on the status of the unit. Turn the unit off and then back to ON. Alternatively, turn the unit off, disconnect the AC mains lead, and then reconnect it. ●If the service numbers fail to clear, note the service number and contact a qualified service person.	**—** **—**

Television displays

"⃠"	●The operation is prohibited by the unit or disc.	**—**
"Cannot display group xx, content xx"	●You are trying to display incompatible contents.	**—**
"This disc may not be played in your region"	●You can only play DVD-Video if their region number is the same or includes the same region number as the unit or if the DVD-Video is marked "ALL". Confirm the region number for the unit on the rear panel.	**Cover**
No on-screen display.	●Select "On" in "On-Screen Messages" in "Display" tab.	**25**

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SUOMI

VAROITUS!

LAITTEEN KÄYTTÄMINEN MUULLA KUIN TÄSSÄ KÄYTTÖOHJEESSA MAINITULLA TAVALLA SAATTAA ALTISTAA KÄYTTÄJÄN TURVALLISUUSLUOKAN 1 YLITTÄVÄLLE NÄKYMÄTTÖMÄLLE LASERSÄTEILYLLE.

VAROITUS:

TULIPALO-, SÄHKÖISKUVAARAN TAI TUOTETTA KOHTAAVAN MUUN VAHINGON VÄHENTÄMISEKSI EI LAITETTA SAA ALTISTAA SATEELLE, KOSTEUDELLE, VESIPISAROILLE TAI ROISKEELLE, EIKÄ NESTETTÄ SISÄLTÄVIÄ ESINEITÄ, KUTEN ESIMERKIKSI MALJAKOITA, SAA ASETTAA LAITTEEN PÄÄLLE.

VAROITUS!

- **ÄLÄ ASENNA TAI LAITA TÄTÄ LAITETTA KABINETTITYYPPISEEN KIRJAKAAPPIIN TAI MUUHUN SULJETTUUN TILAAN, JOTTA TUULETUS ONNISTUISI. VARMISTA, ETTÄ VERHO TAI MIKÄÄN MUU MATERIAALI EI HUONONNA TUULETUSTA, JOTTA VÄLTETTÄISIIN YLIKUUMENEMISESTA JOHTUVA SÄHKÖISKU- TAI TULIPALOVAARA.**
- **ÄLÄ PEITÄ LAITTEEN TUULETUSAUKKOJA SANOMALEHDELLÄ, PÖYTÄLIINALLA, VERHOLLA TAI MUULLA VASTAAVALLA ESINEELLÄ.**
- **ÄLÄ ASETA PALAVAA KYNTTILÄÄ TAI MUUTA AVOTULEN LÄHDETTÄ LAITTEEN PÄÄLLE.**
- **HÄVITÄ PARISTOT LUONTOA VAHINGOITTAMATTOMALLA TAVALLA.**

TÄMÄ LAITE ON TARKOITETTU KÄYTETTÄVÄKSI LEUDOSSA ILMASTOSSA.

Laite tulee asettaa lähelle verkkopistorasiaa ja pistokkeen täytyy olla sellaisessa asennossa, että siihen on helppo tarttua ongelman sattuessa.

NORSK

ADVARSEL!

DETTE PRODUKTET ANVENDER EN LASER. BETJENING AV KONTROLLER, JUSTERINGER ELLER ANDRE INNGREP ENN DE SOM ER BESKREVET I DENNE BRUKSANVISNING, KAN FØRE TIL FARLIG BESTRÅLING.
DEKSLER MÅ IKKE ÅPNES, OG FORSØK ALDRI Å REPARERE APPARATET PÅ EGENHÅND. ALT SERVICE OG REPARASJONSARBEID MÅ UTFØRES AV KVALIFISERT PERSONELL.

ADVARSEL:

FOR Å REDUSERE FAREN FOR BRANN, ELEKTRISK STØT ELLER SKADER PÅ PRODUKTET, MÅ DETTE APPARATET IKKE UTSETTES FOR REGN, FUKTIGHET, VANNDRÅPER ELLER VANNSPRUT. DET MÅ HELLER IKKE PLASSERES GJENSTANDER FYLT MED VANN, SLIK SOM BLOMSTERVASER, OPPÅ APPARATET.

ADVARSEL!

- **APPARATET MÅ IKKE PLASSERES I EN BOKHYLLE, ET INNEBYGGET KABINETT ELLER ET ANNET LUKKET STED HVOR VENTILASJONSFORHOLDENE ER UTILSTREKKELIGE. SØRG FOR AT GARDINER ELLER LIGNENDE IKKE FORVERRER VENTILASJONSFORHOLDENE, SÅ RISIKO FOR ELEKTRISK SJOKK ELLER BRANN FORÅRSAKET AV OVERHETING UNNGÅS.**
- **APPARATETS VENTILASJONSÅPNINGER MÅ IKKE DEKKES TIL MED AVISER, BORDDUKER , GARDINER OG LIGNENDE.**
- **PLASSER IKKE ÅPEN ILD, SLIK SOM LEVENDE LYS, OPPÅ APPARATET.**
- **BRUKTE BATTERIER MÅ KASSERES UTEN FARE FOR MILJØET.**

DETTE APPARATET ER BEREGNET TIL BRUK UNDER MODERATE KLIMAFORHOLD.

Utstyret bør plasseres i nærheten av AC-stikkontakten, og støpslet må være lett tilgjengelig hvis det skulle oppstå problemer.

Matsushita Electric Industrial Co., Ltd.
Web Site: http://www.panasonic.co.jp/global/

En

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